

JVC

HD-ILA TV

HD-65DS8DDU

HD-58DS8DDU

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
MANUAL DE INSTRUCCIONES
KÄYTTÖOHJE
BRUKSANVISNING

HD-ILA™
Powered by **D-ILA**

Full HD

DynaPiX HD
Powered by **D.L.I.T.**

T-V LINK

**HD
ready**

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

**MAXX
Bass**

DVB®
Digital Video
Broadcasting



ENGLISH
DEUTSCH
FRANÇAIS
CASTELLANO
SUOMI
SVENSKA

Trade Mark of the DVB Digital Video Broadcasting
Project (1991 to 1996) Number : 4345, 4346

LCT2236-001A-A

ENGLISH

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Germany

DEUTSCH

Sehr geehrter Kunde, sehr geehrte Kundin,

dieses Gerät stimmt mit den gültigen europäischen Richtlinien und Normen bezüglich elektromagnetischer Verträglichkeit und elektrischer Sicherheit überein.

Die europäische Vertretung für die Victor Company of Japan, Limited ist:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Deutschland

FRANÇAIS

Cher(e) client(e),

Cet appareil est conforme aux directives et normes européennes en vigueur concernant la compatibilité électromagnétique et à la sécurité électrique.

Représentant européen de la société Victor Company of Japan, Limited:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Allemagne

CASTELLANO

Apreciado cliente,

Este aparato cumple con las normativas y normas europeas respecto a la seguridad eléctrica y a la compatibilidad electromagnética.

El representante europeo de Victor Company of Japan, Limited es:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Alemania

SUOMI

Hyvä asiakas,

Tämä laite on yhdenmukainen niiden voimassa olevien eurooppalaisten direktiivien ja standardien kanssa, jotka koskevat sähkömagneettista yhteensopivuutta ja sähköturvallisuutta.

Victor Company of Japan, Limited:in Euroopan edustaja on:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

61145 Friedberg

Saksa

SVENSKA

Bästa kund!

Denna apparat överensstämmer med gällande EU-direktiv och standarder beträffande elektromagnetisk kompatibilitet och elsäkerhet.

Europarepresentant för Victor Company of Japan, Limited är:

JVC Technology Centre Europe GmbH

Postfach 10 05 52

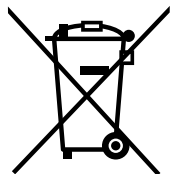
61145 Friedberg

Tyskland

Information for Users on Disposal of Old Equipment

ENGLISH

[European Union]



This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

Attention:

This symbol is only valid in the European Union.

(Business users)

If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

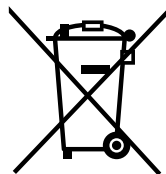
[Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

Informations relatives à l'élimination des appareils usagés, à l'intention des utilisateurs

FRANÇAIS

[Union européenne]



Lorsque ce symbole figure sur un appareil électrique et électronique, cela signifie qu'il ne doit pas être éliminé en tant que déchet ménager à la fin de son cycle de vie. Le produit doit être porté au point de pré-collecte approprié au recyclage des appareils électriques et électroniques pour y subir un traitement, une récupération et un recyclage, conformément à la législation nationale.

En éliminant correctement ce produit, vous contribuez à la conservation des ressources naturelles et à la prévention des éventuels effets négatifs sur l'environnement et la santé humaine, pouvant être dus à la manipulation inappropriée des déchets de ce produit. Pour plus d'informations sur le point de pré-collecte et le recyclage de ce produit, contactez votre mairie, le service d'évacuation des ordures ménagères ou le magasin dans lequel vous avez acheté le produit.

Des amendes peuvent être infligées en cas d'élimination incorrecte de ce produit, conformément à la législation nationale.

Attention:

Ce symbole n'est reconnu que dans l'Union européenne.

(Utilisateurs professionnels)

Si vous souhaitez éliminer ce produit, visitez notre page Web www.jvc-europe.com afin d'obtenir des informations sur sa récupération.

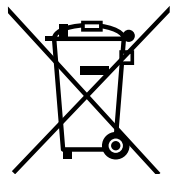
[Pays ne faisant pas partie de l'Union européenne]

Si vous souhaitez éliminer ce produit, faites-le conformément à la législation nationale ou autres règles en vigueur dans votre pays pour le traitement des appareils électriques et électroniques usagés.

Benutzerinformationen zur Entsorgung alter Geräte

DEUTSCH

[Europäische Union]



Dieses Symbol zeigt an, dass das elektrische bzw. elektronische Gerät nicht als normaler Haushaltsabfall entsorgt werden soll. Stattdessen sollte das Produkt zur fachgerechten Entsorgung, Weiterverwendung und Wiederverwertung in Übereinstimmung mit der Landesgesetzgebung einer entsprechenden Sammelstelle für das Recycling elektrischer und elektronischer Geräte zugeführt werden.

Die korrekte Entsorgung dieses Produkts dient dem Umweltschutz und verhindert mögliche Schäden für die Umwelt und die menschliche Gesundheit, welche durch unsachgemäße Behandlung des Produkts auftreten können. Weitere Informationen zu Sammelstellen und dem Recycling dieses Produkts erhalten Sie bei Ihrer Gemeindeverwaltung, Ihrem örtlichen Entsorgungsunternehmen oder in dem Geschäft, in dem Sie das Produkt gekauft haben.

Für die nicht fachgerechte Entsorgung dieses Abfalls können gemäß der Landesgesetzgebung Strafen ausgesprochen werden.

Hinweis:

Dieses Symbol ist nur in der Europäischen Union gültig.

(Geschäftskunden)

Wenn Sie dieses Produkt entsorgen möchten, besuchen Sie bitte unsere Webseite www.jvc-europe.com, um Informationen zur Rücknahme des Produkts zu erhalten.

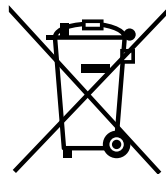
[Andere Länder außerhalb der Europäischen Union]

Wenn Sie dieses Produkt entsorgen möchten, halten Sie sich dabei bitte an die entsprechenden Landesgesetze und andere Regelungen in Ihrem Land zur Behandlung elektrischer und elektronischer Geräte.

Información para los usuarios sobre la eliminación de equipos usados

CASTELLANO

[Unión Europea]



Este símbolo indica que los aparatos eléctricos y electrónicos no deben desecharse junto con la basura doméstica al final de su vida útil. El producto deberá llevarse al punto de recogida correspondiente para el reciclaje y el tratamiento adecuado de equipos eléctricos y electrónicos de conformidad con la legislación nacional.

Si desecha el producto correctamente, estará contribuyendo a conservar los recursos naturales y a prevenir los posibles efectos negativos en el medio ambiente y en la salud de las personas que podría causar el tratamiento inadecuado del producto desechado. Para obtener más información sobre el punto de recogida y el reciclaje de este producto, póngase en contacto con su oficina municipal, su servicio de recogida de basura doméstica o la tienda en la que haya adquirido el producto.

De acuerdo con la legislación nacional, podrían aplicarse multas por la eliminación incorrecta de estos desechos.

Atención:

Este símbolo sólo es válido en la Unión Europea.

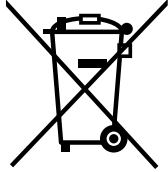
(Empresas)

Si desea desechar este producto, visite nuestra página Web www.jvc-europe.com para obtener información acerca de la retirada del producto.

[Otros países no pertenecientes a la Unión Europea]

Si desea desechar este producto, hágalo de conformidad con la legislación nacional vigente u otras normativas de su país para el tratamiento de equipos eléctricos y electrónicos usados.

[Euroopan unioni]



Tämä symboli tarkoittaa, että sähkö- ja elektroniikkalaitteita ei tule laittaa talousjätteisiin, kun ne poistetaan käytöstä. Sen sijaan tuotteet tulee toimittaa asianmukaiseen sähkö- ja elektroniikkalaitteiden kierrätyspisteeseen, jossa ne käsitellään uusiokäyttöä ja kierrätystä varten paikallisen lainsäädännön mukaan.

Kun hävität tuotteen asianmukaisella tavalla, autat säästämään luonnonvaroja ja estämään mahdollisia ympäristö- ja terveyshaittoja, joita voisi aiheutua tämän tuotteen vääränlaisesta hävittämisestä. Lisätietoja keräyspisteistä ja tämän tuotteen kierrätyksestä saat paikkakuntasi viranomaisilta, kotitalousjätteiden keräyksestä huolehtivasta yrityksestä tai liikkeestä, josta ostit tuotteen.

Tuotteen vääränlaisesta hävittämisestä voi seurata paikallisen lainsäädännön mukaisia rangaistuksia.

(Yrityskäyttäjät)

Jos haluat hävittää tämän tuotteen, web-sivustoltamme osoitteessa www.jvc-europe.com löydät tietoja käytetyn tuotteen palautuksesta.

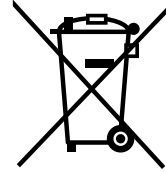
[Muut maat Euroopan unionin ulkopuolella]

Jos haluat hävittää tämän tuotteen, tee se kansallisen lainsäädännön tai muiden maassasi voimassa olevien määräysten mukaan, jotka koskevat vanhojen sähkö- ja elektroniikkalaitteiden käsittelyä.

Huomio:

Tämä symboli on voimassa vain Euroopan unionissa.

[Europeiska gemenskapen]



Denna symbol anger att elektrisk och elektronisk utrustning inte ska kasseras som vanligt hushållsavfall, när de inte ska användas mer. Istället ska produkten lämnas in på lämplig återvinningsstation för elektrisk eller elektronisk utrustning, så att den kan tas om hand och återvinnas i enlighet med ert lands lagstiftning.

Genom att avyttra denna profukt på rätt sätt, bidrar du till att bevara naturen och förhindrar potentiellt negativa effekter på miljön och den mänskliga hälsan, som annars kan bli resultatet vid felaktig hantering av denna produkt. Kontakta ditt kommunkontor, det företag som hanterar dina hushållssopor eller butiken där du köpt produkten, för mer information om återvinningscentraler.

Det kan hända att du bötfälls i enlighet med ert lands lagstiftning om detta avfall kasseras på fel sätt.

(Företagsanvändare)

Om ni vill kassera denna produkt, besök vår webbsida www.jvc-europe.com för att få information om returnering av produkten.

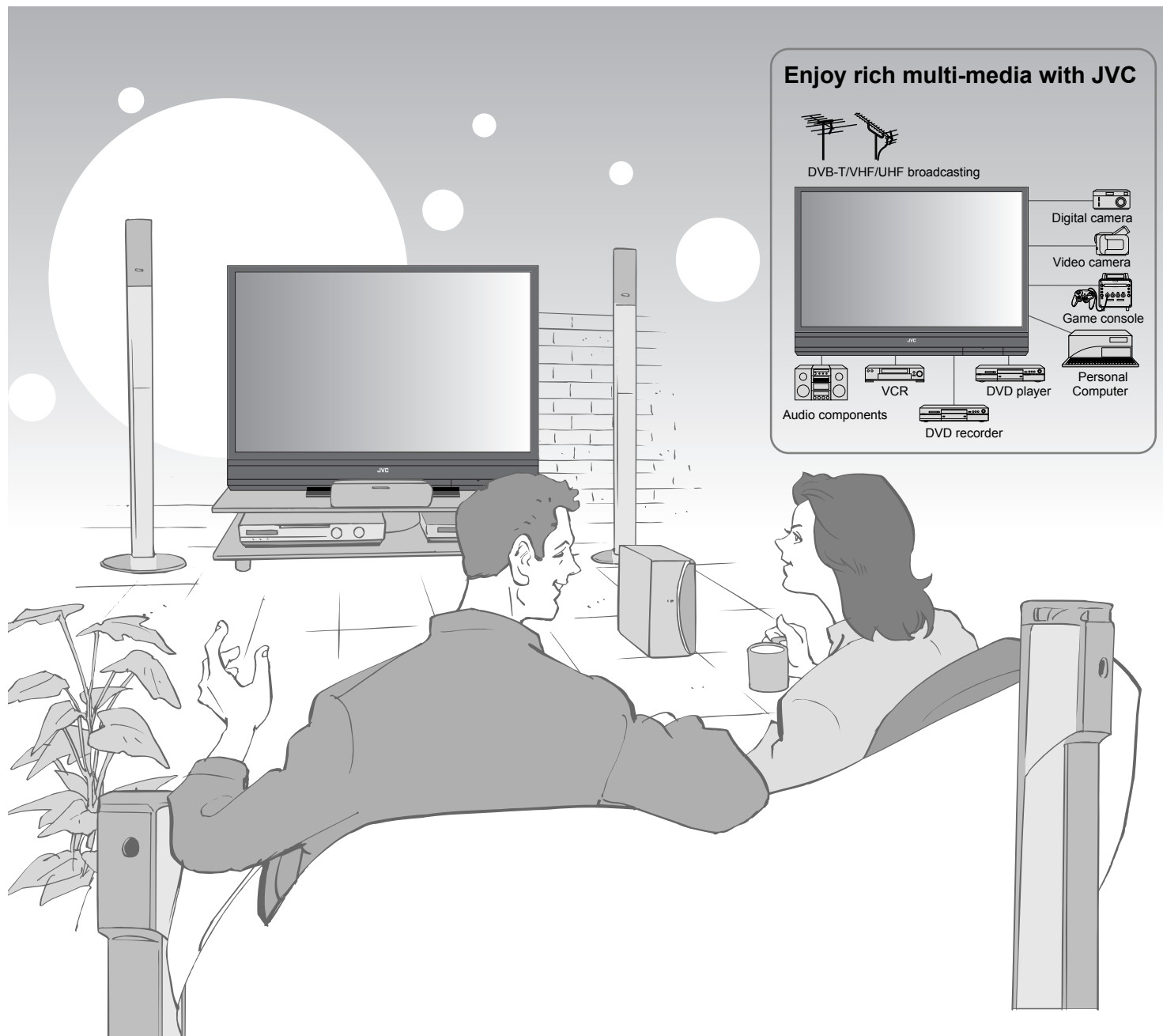
[Övriga länder utanför den Europeiska gemenskapen]

Om du vill kassera denna produkt, ska detta göras i enlighet med gällande lagstiftning i landet, eller enligt andra bestämmelser i ditt land, för behandling av gammal elektrisk eller elektronisk utrustning.

Tänk på:

Att denna symbol endast gäller inom den Europeiska gemenskapen.

Expanding the world of beautiful images



Digital terrestrial broadcasting (DVB-T)

⇒ Digital channels

Analogue terrestrial broadcasting (VHF / UHF) and analogue cable TV

⇒ Analogue channels

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Warning

Please follow all the guidelines below

Follow this manual regarding setup!

- Connect only to a 220-240V, 50Hz AC outlet.

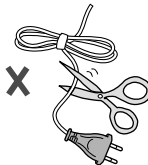
Make enough room for inserting and removing the power plug!

Place the TV as close to the outlet as possible!

- The main power supply for this TV is controlled by inserting or removing the power plug.

Never cut or damage the power cord!

- If the power plug is not the right shape, or the power cord is not long enough, use an appropriate plug adapter or extension cable. (Consult your retailer.)



Do not allow the TV to fall or drop down!

- Follow the instructions below to avoid serious injuries.
 - ① Remove the pedestals on the TV only in the cases allowed in "Installation" (P. 8).
 - ② Do not lean or rest your elbows on the TV.
 - ③ Do not allow children to hang from the TV.

On disposal of the TV!

- Follow the instruction in "Information for Users on Disposal of Old Equipment" (P.ii to iii).



Never place anything on the TV!

- Placing liquids, naked flames, cloths, paper, etc. on the TV may cause a fire.



Never expose to rain or moisture!

- To prevent fire or electric shock, never allow liquids to enter the unit.



Never insert objects into the cabinet openings!

- It may cause a fatal electric shock. Take care when children are near.



Never listen with headphones at high volume!

- It may damage your hearing.

Never try to repair the TV yourself!

⇒ If the problem cannot be solved in "Troubleshooting" (P. 30), unplug the power cord and contact your retailer.

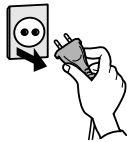
If the TV is damaged or behaving strangely, stop using it at once!

⇒ Unplug the power cord and contact your retailer.



Unplug the power cord when going out!

- The power buttons on the remote control and the TV unit cannot completely turn off the TV. (Make appropriate arrangements for bedridden people.)
- Make sure that the cooling process (P. 3) has completed before unplugging the power cord.



Ensure ample room to avoid overheating!

- "Care when setting" (P. 8)

Never dismantle the rear panel!

- It may cause an electric shock.

Never block the ventilation holes!

- It may cause overheating or a fire.

Handle screen with care!

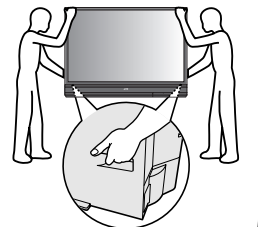
- Use a soft, dry cloth when cleaning.

Hold the TV so as not to scratch the screen!

- Do not touch the screen when carrying the TV.

Do not hold by the screen frame when moving the TV!

- This could cause the screen frame to detach, causing the TV to fall. Hold the TV as illustrated on the right.



Precautions

This TV uses a lamp to project the picture on the screen. Misoperations may shorten the lamp life or cause malfunction of the lamp.

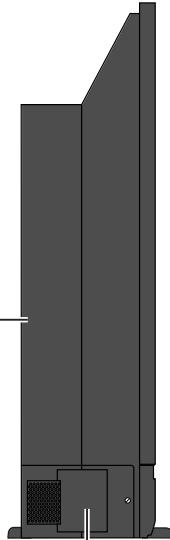
Before operating the TV, read all the instructions below.

This TV has a fan to cool the lamp

- When the lamp is hotter, the fan works harder to cool the lamp. In such a case, the noise of the fan becomes louder but it is not malfunction.

Keep children or pets away from the air ducts

- Long exposure to the warm air from the ducts may cause a minor burn.



The lamp is a consumable item

- When the lamp has blown, replace the lamp; otherwise, the picture cannot be displayed. For details ⇒ “Replacing the lamp” (P. 4, 5)

Follow the instructions on “Replacing the lamp” when replacing the lamp (P. 4, 5)

- Handle the lamp carefully and correctly; otherwise, it may cause a burn or an electric shock. In addition, it may shorten lamp life or cause malfunction of the TV.

Never open the lamp cover except when replacing the lamp

- Exposing the lamp is dangerous because...
- The lamp becomes extremely hot while in use, it may cause a burn.
- Touching metallic portion of the lamp may cause electric shock.
- Ultraviolet rays are emitted from the lamp.

Never replace the lamp immediately after use

- Since the lamp becomes extremely hot while in use, it may cause a burn.

Never touch the lamp glass

- Dirt or oil from the finger may cause the lamp to break.

Please follow all the guidelines below

When the power is turned on, the warming up commences

- Immediately after the TV is turned on, the picture is displayed only dimly. It takes about one minute for the lamp to warm up. Once the lamp has warmed up, you can enjoy the pictures at their normal brightness.
- During this warming-up period, the LAMP indicator blinks every 2 seconds.

While the LAMP indicator is blinking, the TV cannot be turned off

When the power is turned off, the cooling down is performed

- When the TV is turned off, the picture on the screen disappears gradually. Once the screen is dark, cooling down is performed for about 1 minute.
- During this cooling-down period, the LAMP indicator blinks every 2 seconds.
- Do not unplug the TV while the lamp is cooling down. This may cause the internal circuits and the lamp to overheat and shorten the lamp life.

While the LAMP indicator is blinking, the TV cannot be turned on

- You can turn on the TV within 15 seconds after turning off.

Condensation on the lamp and screen

- When the heater is turned on or the TV is moved from a cold place to a warm place, droplets of water may form on the lamp and screen. This is called condensation. If the TV is used while this condensation is still present, the picture may seem distorted, and the inside of the screen may become dirty. In this case, wait until the condensation has gone before using the TV.

Do not turn the power on and off repeatedly in a short amount of time

- It subjects the TV and the lamp to stress and may lead to malfunctions and shorten the lamp life.

Do not keep the TV on for more than 24 hours consecutively

- The lamp life may be shortened.

Do not project a still picture for a long time

- Because of the ILA characteristics, still picture may remain on the screen. (The picture will disappear over time.)

■ For more details on installation, usage and safety ⇒ Consult your retailer

Replacing the lamp

The TV uses a lamp to project the picture onto the screen. When the lamp has blown or when the picture becomes dark, replace the lamp.

Before replacing the lamp, read all the instructions carefully.

■ If you feel unsure about replacing the lamp yourself ⇒ Consult your retailer

Preparation

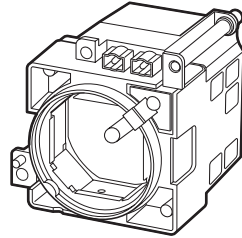
Prepare the Replacement Lamp Kit

- For purchasing the Replacement Lamp Kit, consult your retailer.



Use only the specified Replacement Lamp Kit!

This lamp is for use with JVC model televisions. Using the lamp with a different television or other product could cause a malfunction and/or damage to the television or lamp.



Replacement Lamp Kit:
PK-CL120E

- High-pressure 120 W mercury lamp

When the lamp is near to its end...

- The following message appears on the screen.

Lamp needs to be replaced.
Please refer to the manual
for replacement instructions.

After replacing the lamp,
please reset the timer in the
TV menu.

Press OK, if you do not want
to see this message again.

■ To make the message disappear



After the usage time of the lamp has reached 6500 hours, this message appears every time you turn on the TV.

■ Possible causes of shortened lamp life

- Turning on/off the TV repeatedly in a short amount of time.
- Keeping the TV turned on for more than 24 hours consecutively.

Before replacing the lamp, read all the instructions.

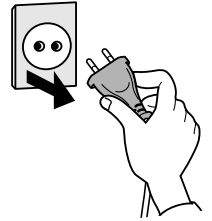
1

Turn the TV off



Wait until the
LAMP indicator
stops blinking

Unplug the TV



2

Wait for at least 1 hour until the lamp
has fully cooled

3

Remove the lamp unit



Never replace the lamp before it has fully cooled!

The lamp becomes extremely hot while in use, which may cause a burn. After turning off the TV, wait for at least 1 hour.

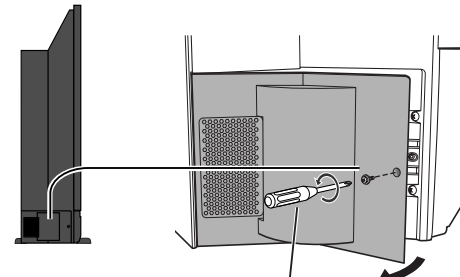


Never attempt to replace the lamp with the TV plugged in!

Attempting to replace the lamp with the TV plugged in could lead to a severe electrical shock.

1

Remove the lamp cover



Philips head type screw
driver (cross-head type)



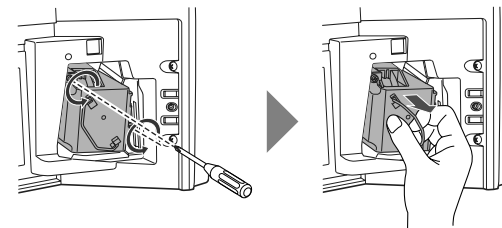
**If you feel any
warmth near the
lamp, DO NOT
TOUCH IT!**

2

Remove the lamp unit

Loosen

Remove

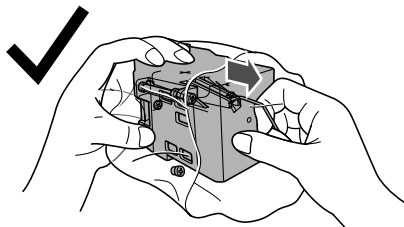


**Do not drop
the lamp!**

4

Install the NEW lamp unit

1 Unpack



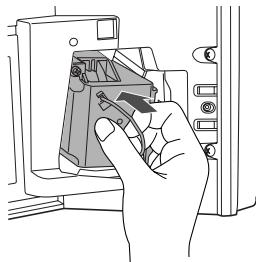
Do not drop the lamp!
Do not shock the glass surface of the lamp!

It may shatter the lamp causing injuries.

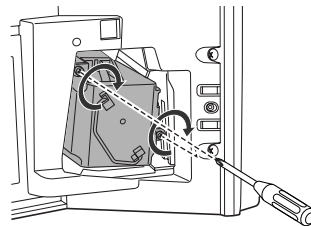


2 Insert

- Make sure the lamp sits securely and flat in the housing area.



Re-tighten

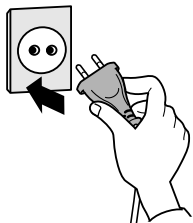


3 Reinstall the lamp cover

- Tighten the screw.

5

Plug in the TV



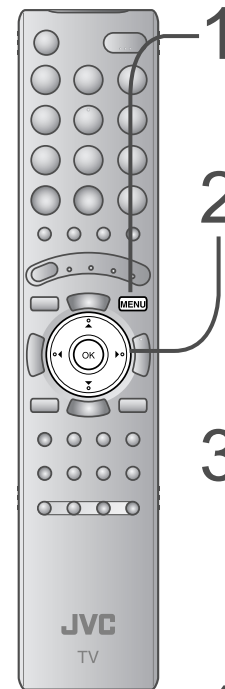
Turn the TV on



- If the lamp unit is not installed securely (e.g. flat in the lamp housing area), the TV won't turn on. In this case, reinstall the lamp unit.

6

Reset the lamp timer

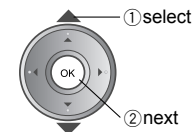
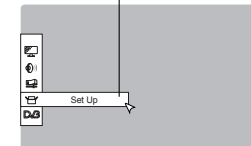


Display the menu bar

MENU

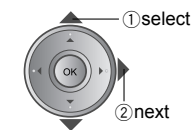
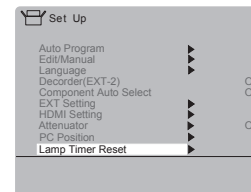


Select "Set Up"



3

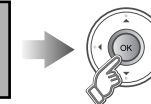
Select "Lamp Timer Reset"



4

Finish

Press OK to reset the lamp timer.



The lamp timer is reset successfully.

7

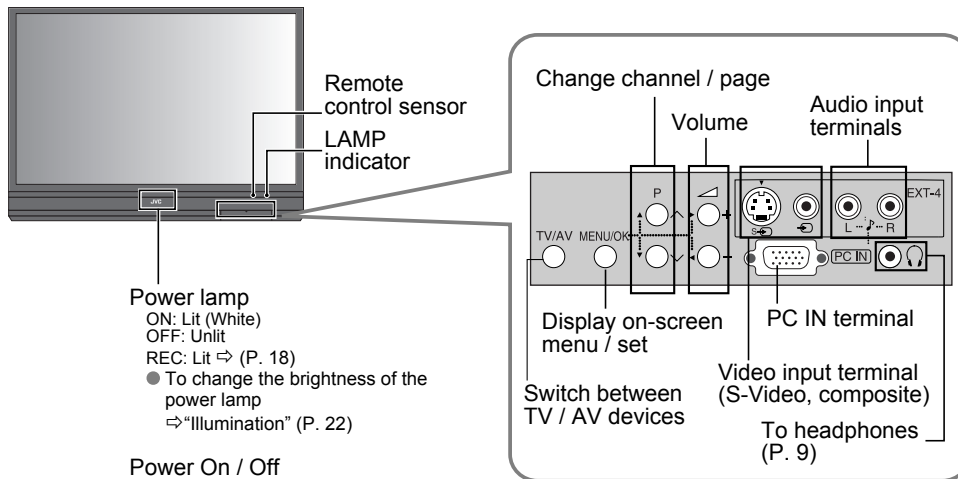
Finally, the lamp has been replaced!

**Never dispose of the lamp with normal trash!**

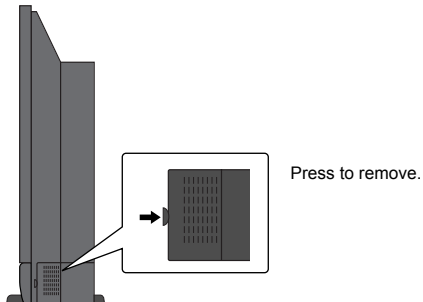
The lamp contains a small amount of mercury. Follow the instruction in "Information for Users on Disposal of Old Equipment" (P.ii to iii).

- If the power lamp and LAMP indicator blink rapidly after turning on the TV
 ⇒ "Lamp" (P. 31)

Names of all the parts

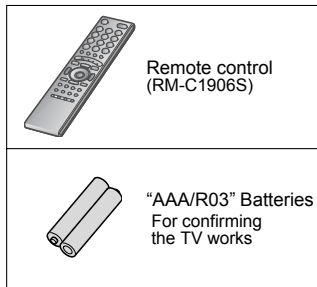


Remove the terminal cover



- Connecting terminals on the back of the TV
⇒ "Connecting external devices" (P. 9)

Check accessories



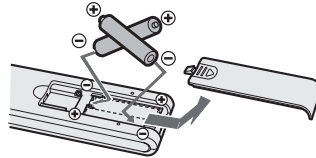
About the LAMP indicator

The LAMP indicator blinks as follows.

- When turning on the TV, the LAMP indicator blinks for about 1 minute every 2 seconds.
⇒ The lamp is warming up. During this period, the TV cannot be turned off.
- After turning off the TV, the LAMP indicator blinks in orange for about 1 minute every 2 seconds.
⇒ Cooling is performed. During the cooling period, the TV cannot be operated.
- If the LAMP indicator blinks rapidly
⇒ "Lamp" (P. 31)

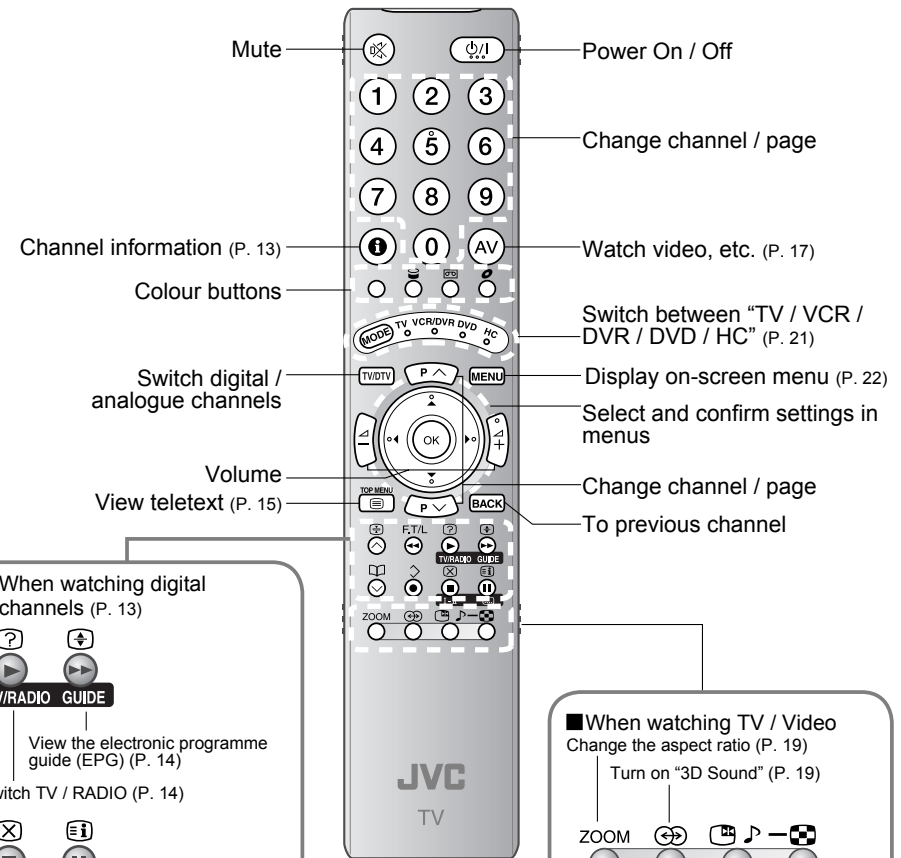
Insert the batteries

Use two "AAA/R03" dry cell batteries.
Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.

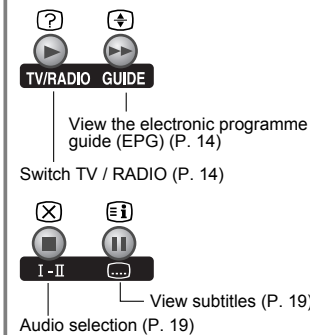


WARNING:

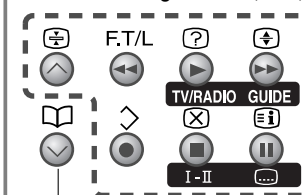
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.



■ When watching digital channels (P. 13)



■ When viewing teletext (P. 15)



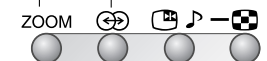
■ When choosing a favourite channel (analogue channel) (P. 16)

■ When operating a JVC recorders or DVD (P. 21)

■ When watching TV / Video

Change the aspect ratio (P. 19)

Turn on "3D Sound" (P. 19)



Take a snapshot of the screen (P. 20)

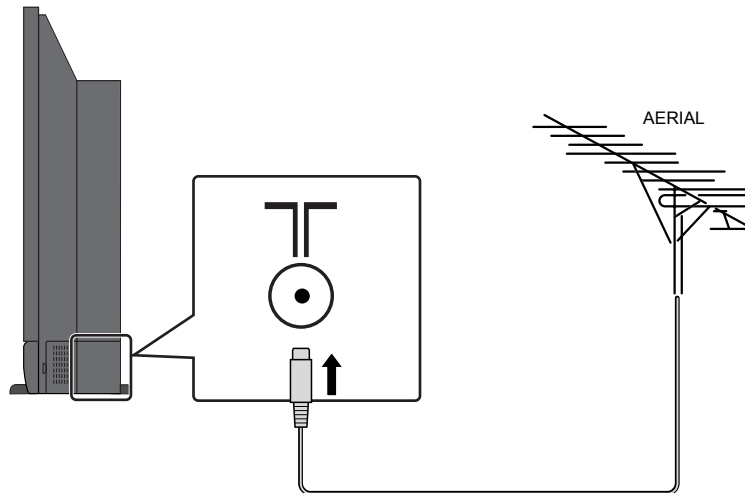
View in multi-picture mode (P. 20)

Basic connections

Please read the user manuals of each device carefully before setup.
It is necessary to connect an aerial to watch TV.

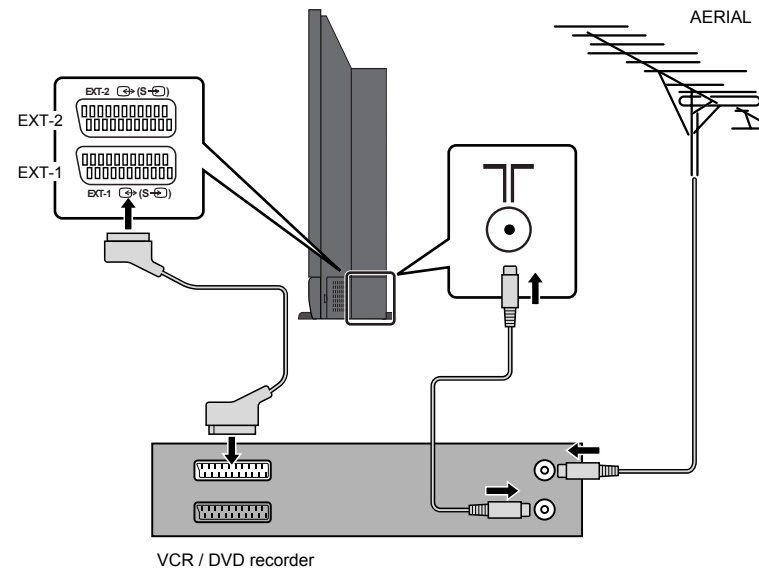
■ Connect with other devices ⇒ "Connecting external devices" (P. 9)

Connect the aerial



- After all the connections have been made, insert the plug into an AC outlet.
- When using an aerial which needs external power ⇒ "Power supply for the indoor aerial" (P. 33)

Connect a VCR / DVD recorder

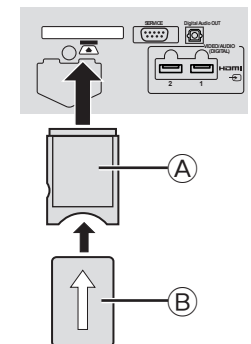


- After all the connections have been made, insert the plug into an AC outlet.
- Connect "T-V LINK" compatible recording device to "EXT-2".
- "T-V LINK" ⇒ "What is "T-V LINK"?" (P. 10)
- When using an indoor aerial which needs external power, connect the aerial directly to the TV.
⇒ "Power supply for the indoor aerial" (P. 33)

Watch pay-TV digital channels

Subscribe to a broadcasting company beforehand. A Smart Card **B** will be sent by the broadcasting company after subscribing to it. It may be necessary for you to purchase a Conditional Access Module **A** in addition to the Smart Card. Consult your broadcasting company or retailer.

- 1 Unplug the power cord
- 2 Insert **B** into **A**.
- 3 Insert **A**.
- 4 Plug the power cord, and turn the power on.
- 5 Perform necessary settings ⇒ "Common Interface" (P. 26)
 - Pay-TV analogue channels cannot be watched.

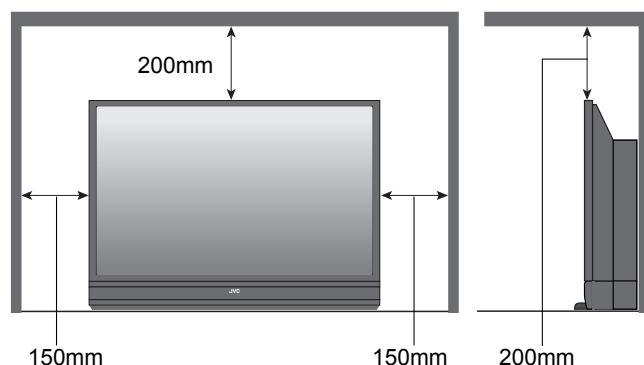


Installation

Care when setting

When installing the TV, install it according to the instructions below:

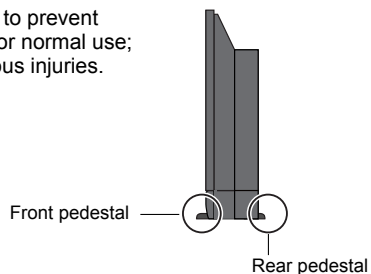
- Install the TV on a level and stable surface.
- Never expose to rain or moisture.
To prevent fire or electric shock, never allow liquids to enter the unit.
- Make enough room for inserting and removing the power plug!
- Place the TV as close to the outlet as possible!
The main power supply for this TV is controlled by inserting or removing the power plug.
- To avoid overheating, ensure that the unit has ample room.



- Connect the power cord only to a 220-240 V, 50 Hz AC outlet

Warning

On the front and rear of the TV, pedestals are attached to prevent the TV from falling over. Do not remove the pedestals for normal use; otherwise, the TV may fall over and it could cause serious injuries.



Remove the pedestal(s) only in the following cases;

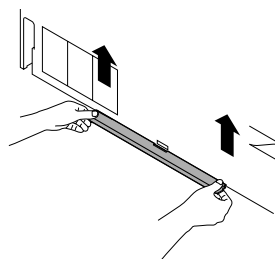
- When attaching the TV to the wall
- When the instructions supplied for JVC optional goods require you to remove the pedestal(s)

When installing the TV right on the wall

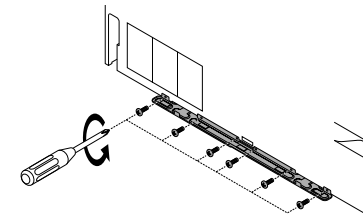
Remove the rear pedestal and install the TV as in the procedure below.

CAUTION:
Remove the rear pedestal on a level and stable surface.

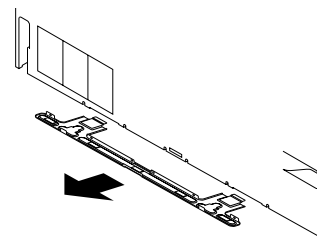
① Remove the cover.



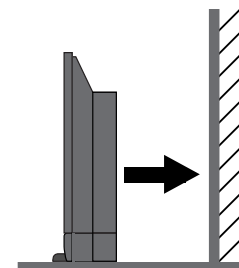
② Remove the screws with a Phillips type screwdriver.



③ Slide out the rear pedestal gently.



④ Attach the TV to the wall.



Be sure to install the TV by two persons.

When installing the TV on a TV stand

Use the optional JVC TV stand

- Refer to the instructions supplied for the JVC TV stand for installation.

Connecting external devices

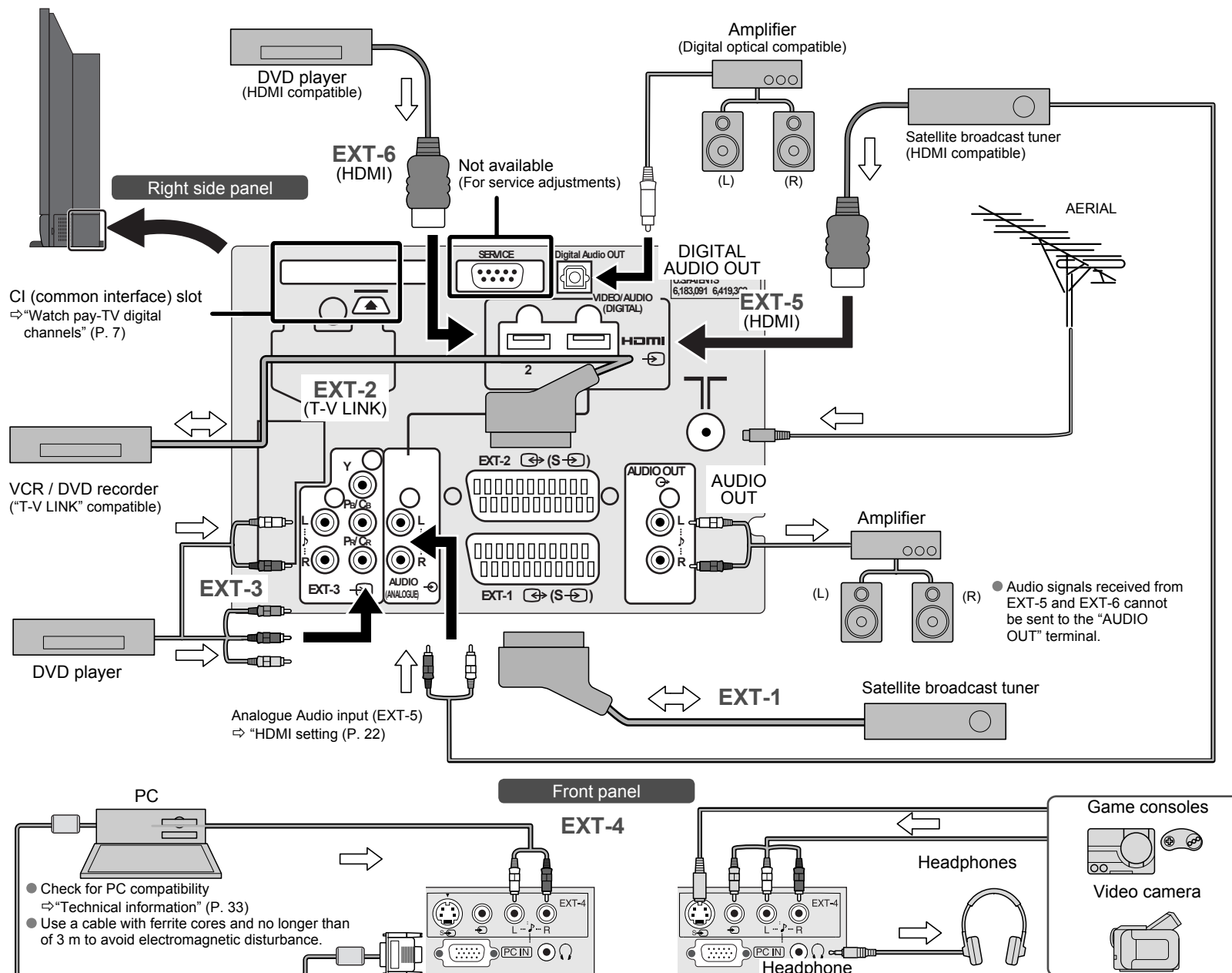
You can connect many different devices to the rear panel of the TV.
Please read the user manuals of each device before setting up.
(Connecting cables are not supplied for this TV.)

⇒ : signal direction

VCR / DVD / other devices

■ Connect "DVI" devices
⇒ (P. 33)

■ "T-V LINK" ⇒ (P. 10)



EXT-1 Watching videos

Output ↑	Input ↓
· Composite signal · Sound L / R	· Composite signal / RGB / S-VIDEO · Sound L / R

● Use S-VIDEO ⇒ "S-IN" (P. 17)

EXT-2 Dubbing videos Using "T-V LINK"

Output ↑	Input ↓
· Composite signal · Sound L / R	· Composite signal / RGB / S-VIDEO · Sound L / R
· T-V LINK	

● Use S-VIDEO ⇒ "S-IN" (P. 17)
● Select dubbing sources
⇒ "DUBBING" (P. 17)
● Connect a decoder
⇒ "Decoder (EXT-2)" (P. 22)

EXT-3 Watching DVDs

Output ↑	Input ↓
	· Component signal (P. 34) · Sound L / R

● "Component Auto Select" ⇒ (P. 22)

EXT-4 Watching videos (front panel)

Output ↑	Input ↓
	· Composite signal · S-VIDEO · Sound L / R

● Use S-VIDEO ⇒ "S-IN" (P. 17)

EXT-5 Connecting EXT-6 HDMI devices

Output ↑	Input ↓
	· HDMI signal (P. 34) · Sound L / R (EXT-5 only)

● "HDMI Setting" ⇒ (P. 22)
● EXT-6 input does not support
analogue sound.
● Use HDMI CEC
⇒ "What is "HDMI CEC"?" (P. 34)

AUDIO OUT

Listening to the TV on external speakers

Output ↑
· Sound L / R

DIGITAL AUDIO OUT

Listening to the digital audio of digital
channels through external speakers

Output ↑
· Digital sound (P. 34)

● The sound from analogue channels
and external devices cannot be output.
⇒ "Dolby Digital output from the
DIGITAL AUDIO OUT terminal" (P. 33)

Initial settings

Register digital / analogue channels on TV. These channels can be edited later.
(In this manual, digital terrestrial broadcasting is indicated as digital channels, analogue terrestrial broadcasting and analogue cable TV as analogue channels.)

■ When turning on the TV, it takes about 1 minute to project the picture to its full brightness.

■ When turning off the TV, it takes about 5 seconds to make the screen dark. After that, cooling is performed for about 1 minute.

⇒ "About the LAMP indicator" (P. 6)

■ To the previous screen ⇒ **BACK**

■ Exit ⇒ **TV/DTV**

■ If the "JVC" logo does not appear or if you wish to make changes later

⇒ Digital channel settings : "DTV Configuration" (P. 25)

"DTV Installation" (P. 27)

Analogue channel settings : "Set Up" (P. 22)

What is "T-V LINK"?

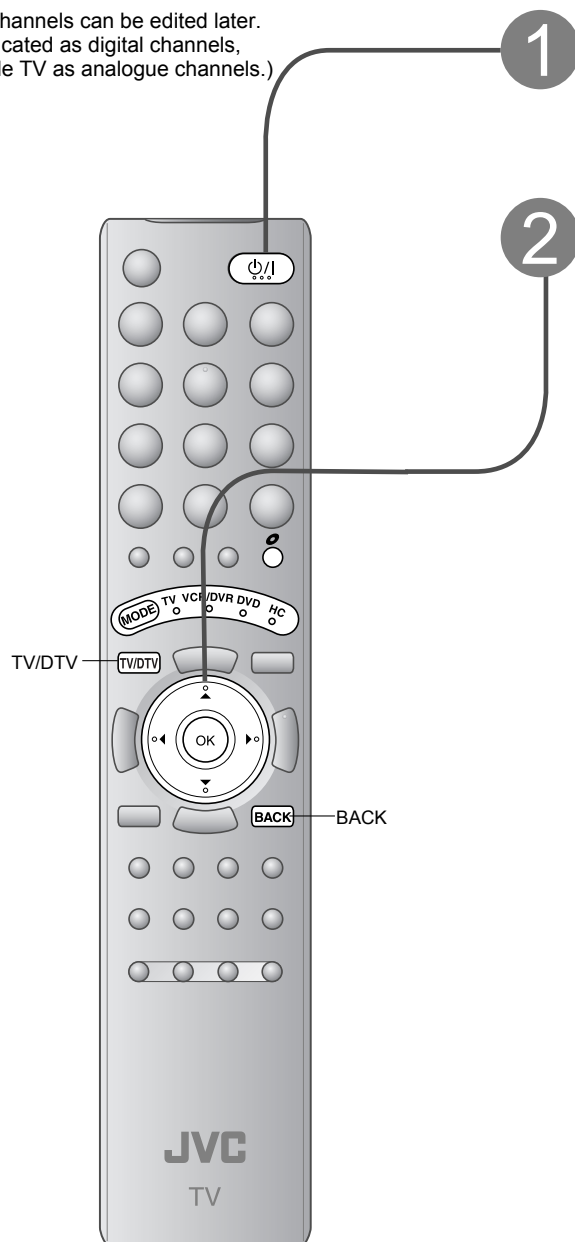
Connecting the TV to a "T-V LINK" compatible device allows :

- Analogue channels to be instantly registered on the device.
- The "DIRECT REC" function to be used.

⇒ "Technical information" (P. 33)

■ "T-V LINK" variations

"T-V LINK" (JVC) "Q-LINK" (Panasonic)
"Megalogic" (Grundig) "Data Logic" (Metz)
"SMARTLINK" (Sony) "Easy Link" (Philips)

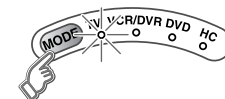


Begin



- Shown only when powering on for the first time.
- The power button on the unit can also be used.

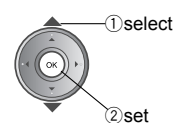
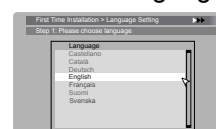
■ The remote control doesn't work



- Confirm the mode is set to "TV".

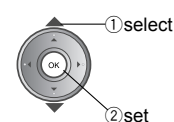
Set digital channels

1 Select a language



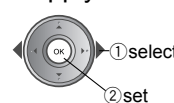
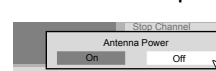
- Language for on-screen displays when watching digital channel including the DTV menu.

2 Select the country of installation



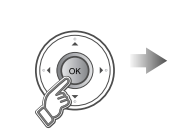
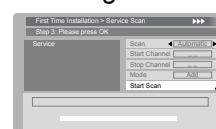
- Receivable digital channels will differ depending on the country setting.
- The illustrations are for Finland

3 Set the aerial power supply

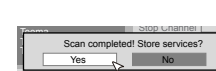


- Only when using an aerial which needs external power, select "On".
⇒ "Power supply for the indoor aerial" (P. 33)

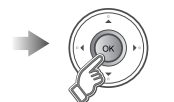
4 Scan digital channels



5 Register digital channels



■ If digital channels are not found, the following message will appear.



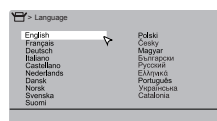
⇒ **3** (Next page)

- After completing following steps, read "When the TV cannot find the digital channels" (P. 11) and try scanning digital channels again

Initial settings (continued)

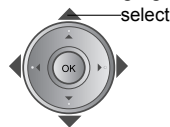
3

Confirm the language



- Language for on-screen analogue channel displays and menus (excluding the DTV menu)

■ When changing a language



■ When not using analogue channels ⇒ TV/DTV ⇒ 5

■ When using analogue channels (or cable TV) ⇒ 4

4

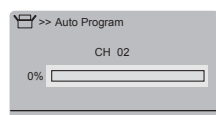
Set analogue channels

1

Register analogue channels



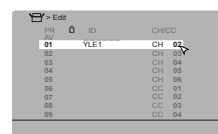
■ When changing a country



- If "ACI Start" appears, select and start settings. (This will set up cable television channels.)
⇒ "What is "ACI" (Automatic Channel Installation)?" (P. 33)

2

Check what was registered



■ Edit analogue channels

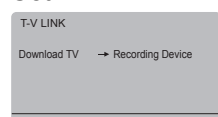
⇒ 3 in "Editing analogue channels" (P. 29)

■ Confirm



3

Set TV-LINK



■ When using T-V LINK



- If "Feature Not Available" appears :
⇒ Is a T-V LINK compatible device connected to EXT-2?
⇒ Is the device turned on?

■ When not using T-V LINK



5

Initial setting is complete

- Edit digital channels ⇒ "Editing digital channels" (P. 28)
- If digital channel reception is poor
⇒ When the digital channel reception is poor (right column)
- If analogue channel reception is poor ⇒ "Troubleshooting" (P. 30)
- Some digital channels cannot be watched on this TV.
⇒ "Digital channels that cannot be watched on this TV" (P.33)

When the TV cannot find the digital channels

Check the following points

- Is the TV connected correctly to the aerial?
- Change the direction of the indoor aerial.
- Is there a digital channel transmission tower nearby?
⇒ Turn "Attenuator" to "On" (P. 22), since the radio waves are too strong.

- Register digital channels again. ⇒ "Service Scan" (P. 27)

■ If you cannot yet watch digital channels after following the steps above, there may be a problem with your aerial or its cable. Or, the signal may be too weak. ⇒ Consult your retailer

When the digital channel reception is poor

The "Missing or weak signal" message appears.

Check the following points

- Is the TV connected correctly to the aerial?
- Change the direction of the indoor aerial.
- Is there a digital channel transmission tower nearby?
⇒ Turn "Attenuator" to "On" (P. 22), since the radio waves are too strong.

■ Check digital channels signal. ⇒ "Signal Check" (P. 27)

■ If you cannot yet watch digital channels after following the steps above, there may be a problem with your aerial or its cable. Or, the signal may be too weak. ⇒ Consult your retailer

When "RF Attenuator" setting screen is displayed

- Set "Attenuator" (P. 22) from this setting screen.
To set the "Attenuator" on, select "On." To set it off, select "Off."
- This setting screen will appear during the "Factory Settings (P. 27) with "Attenuator" set to "On."

Enjoying your new TV!

PAGE
13

Watching digital channels

- View channel information
- Select a channel
- Listen to the radio, etc.

PAGE
16

Watching analogue channels

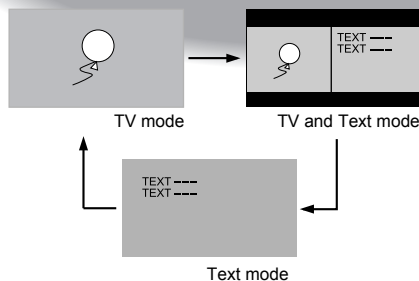
- View channel information
- Register your favourite channels, etc.



TV/DTV

PAGE 15 Viewing teletext

- Bookmark your favourite pages
- Reveal hidden pages
- Enlarge the text, etc.



TOP MENU

GUIDE

PAGE
14

Using EPG

- View the programme list for 8 days
- Search from a genre
- Reserve a programme to watch / record, etc.

PAGE

17

Watching videos/DVDs

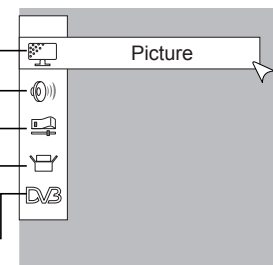
- PC position adjustment
- Watch high quality video (S-VIDEO)
- Name connected devices
- Dub videos

AV

Customising your TV

PAGE
22

- Adjust the picture
- Adjust the sound
- Advanced settings (sleep-timer / child lock, etc.)
- Basic settings (channel settings, etc.)
- Digital channel settings (timer-record / configuration / channel settings, etc.)



Watching digital channels

- Set to "TV"**
Press the **MODE** button and select **TV** from the menu (VCR/DVR, DVD, HC, TV).
- Power on**
Press the **Power** button. The white power lamp on the TV lights.
● Press again to turn the screen off and put the TV into standby mode.
- Switch to digital channels**
Press the **TV/DTV** button.
- Switch TV / RADIO**
Press the **TV/RADIO** button.
- Select a channel**
● To the previous screen ⇒ **BACK**
● View subtitles / Select audio language ⇒ (P. 19)

Note

- To completely turn off the TV, unplug the power plug.
- Watch pay-TV digital channels ⇒ (P. 7)
- Add a new station ⇒ (P. 27)
- Some digital channels cannot be watched on this TV. ⇒ (P.33)

■ Mute
■ Volume

Basic operations using the front buttons

- Power on**
Press the **Power** button.
- Change the channel**
Press the **Channel** buttons (P, 1-9, 0, MUTE).
■ Volume

- To switch between digital / analogue channels, or TV / radio, use remote control.

- When turning on the TV, it takes about 1 minute to project the picture to its full brightness.
- When turning off the TV, it takes about 5 seconds to make the screen dark. After that, cooling is performed for about 1 minute.
⇒ "About the LAMP indicator" (P. 6)

Channel information

Channel: 1, Clock: 14:00, Programme: YLE TV1
Now: 14:00 - 15:00 Uutiset
Next: 15:00 - 17:00 Golf

More information: Kotimaan uutiset, Ulkomaan uutiset, Talousuutiset, Uutiset-uutiset

● Whenever changing the channel, "Channel Information" is displayed.

Symbols description

: Reception level	: Poor	: Acceptable	: Excellent	: Pay-TV channel
: TV programme	: Radio programme	: Minimum viewing age limit of the programme. Set viewing age limit. ⇒ (P. 25)	: Subtitles are available (P. 19).	: More information about the programme is available. ⇒
: Teletext is available (P. 15).	: I-II : Audio in another language is not available. II : Other audio languages are available (P. 22).	Dolby Digital : Dolby Digital signal is output from the "DIGITAL AUDIO OUT" terminal (P.33)		

- The information displayed may differ from programme to programme.
- When the clock is wrong ⇒ "Set the clock to the right time" (P.33).
- Select the default language for programme name and programme information ⇒ "EPG Language" (P.25).

Using PR list

PR List

- select
- view

- Channels registered in "Initial settings" will appear here.
- You can select only from your favourite channels ⇒ "Favourite Mode" (P. 25)

Using EPG

EPG

Electronic Programme Guide 14:00 05/05/2006

- select the channel column
- select a channel
- view

- Display only programmes which match your selected genre ⇒ "Genre" (P. 14)

Using the number buttons, up / down buttons

Enter a channel number

E.g.
1: 0 ⇒ 0 ⇒ 1
15: 0 ⇒ 1 ⇒ 5

Move up or down a channel

up
 down

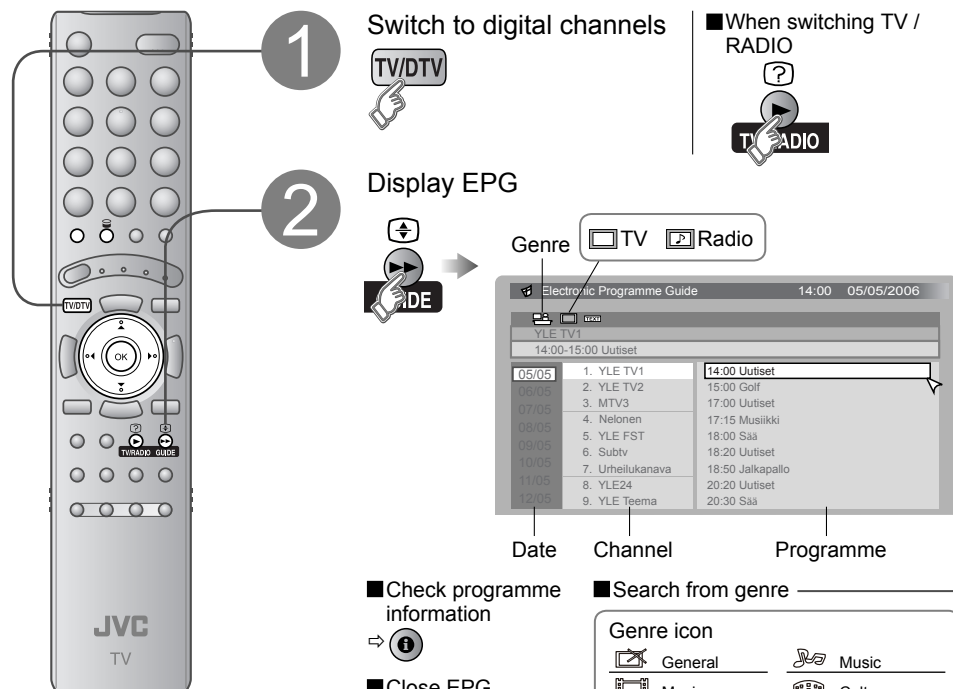
- You can select only from your favourite channels ⇒ "Favourite Mode" (P. 25)

■ The channels and programme names shown in the illustrations here are examples only.

Using EPG (Electronic Programme Guide)

You can find a digital channel programme from an eight-day programme guide, check its information, and make a reservation.

ENGLISH



- When the clock is wrong
⇒ "Set the clock to the right time" (P.33).
- Select the default language for programme name and programme information
⇒ "EPG Language" (P.25).

Check programme information



Close EPG



Search from genre

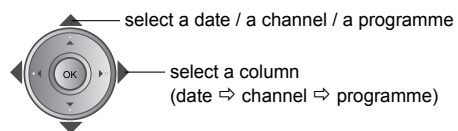
Genre icon	
	General
	Movie
	News
	Entertainment
	Sports
	Children
	Music
	Culture
	Current Affairs
	Education
	Leisure
	Special

- The genre may differ depending on your country.
- Above illustrations are Genre icons for Finland.

3 Find a programme

Watch / listen to the programme ⇒ (P. 13)

Reserve the programme



The channels and programme names shown in the illustrations here are examples only.

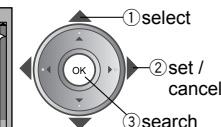
Display only programmes which match your selected genre

Genre

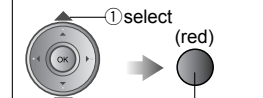
1 Display the genre List



2 Select a genre



Quick search

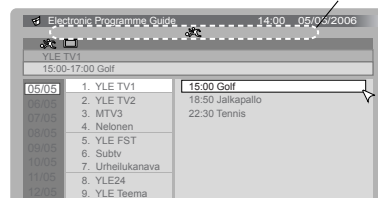


- Only one genre can be selected.

- More than one genre can be selected.

3 Find a programme

Your selected genres are displayed

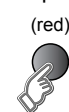


- Only programmes in the selected genre are displayed.

Reserve a programme to watch and record

Timer

1 Display "Timer"



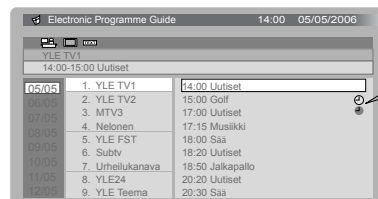
- Select the reserved programme beforehand.

2

Set "Timer" ⇒ 6 in "Using timer-record" (P. 18)

3

Confirm the reservation



(red) : Reserve to record
(blue) : Reserve to watch

: Reservation time is shorter than the broadcasting time

- For more details about the timer-record setting
⇒ "Using timer-record" (P. 18)

Viewing teletext

This TV can display TV broadcasts and teletext on the same channel in two windows.

1 **TV/DTV**

2 **TOP MENU**

■ When watching TV

● Enter a teletext page

1 2 3
4 5 6
7 8 9
0

● Move up or down a page

P ^ up
P v down

● View sub-pages

to sub-page

01 02

● To change the default language for teletext in digital channels
⇒ "Teletext Language" (P. 25)

1 **F.T/L** Display your favourites list

(RED) (GREEN) (YELLOW) (BLUE)

2 Select a coloured button to save your page to

(red) (green) (yellow) (blue)

3 Enter the number of the page to save

1 2 3
4 5 6
7 8 9
0

4 Save

Bookmark your favourite page
LIST MODE

■ Recall your favourite page ⇒ Press the coloured button as in step 2

Hold the current page
HOLD

Hold the current page
Release ⇒ Press "HOLD" again.

Reveal hidden pages
REVEAL

Display hidden information (answers to quizzes, etc.)

1 + 2 =
2 x 3 =

1 + 2 = 3
2 x 3 = 6

Enlarge the text
SIZE

Double the size of the displayed text

TEXT
SIZE

TEXT
SIZE

To the index page
INDEX

Returns to page "100" or a previously designated page

Switch briefly from teletext to TV
CANCEL


Leave the current page open, while you switch to watch TV

P233
TEXT
TEXT

P233

● Useful when running a page search.

Watching analogue channels



- 1 Set to "TV"**
MODE TV VCR/DVR DVD HC
- 2 Power on**
The white power lamp on the TV lights.
● Press again to turn the screen off and put the TV into standby mode.
- 3 Switch to analogue channels**
TV/DTV
- 4 Select a channel**
● To the previous channel ⇒ BACK

■ Mute

■ Volume

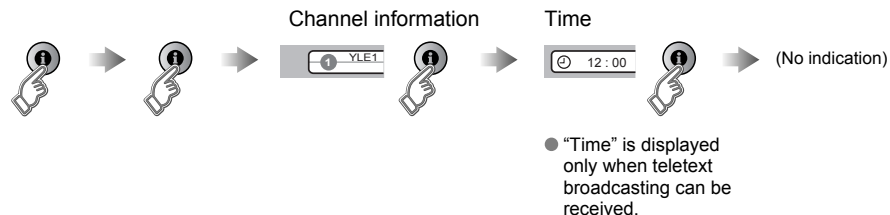
Note

- To completely turn off the TV, unplug the power plug.
- To watch analogue channels you must register them beforehand. ⇒ "Auto Program" (P. 22)

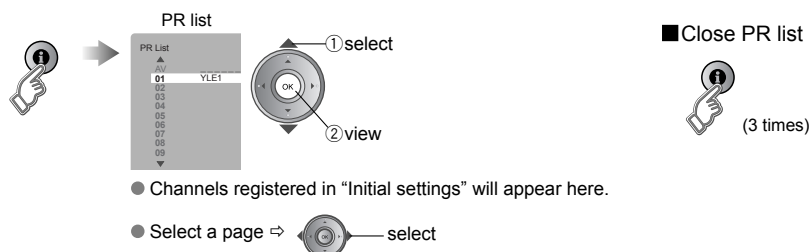
■ Switch between mono / stereo / bilingual broadcasting
⇒ "Stereo / I-II" (P. 22)

■ When turning on the TV, it takes about 1 minute to project the picture to its full brightness.
■ When turning off the TV, it takes about 5 seconds to make the screen dark. After that, cooling is performed for about 1 minute.
⇒ "About the LAMP indicator" (P. 6)

Channel information and clock



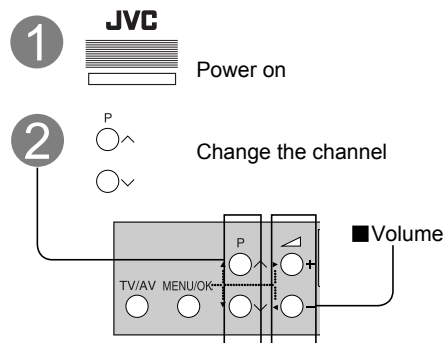
Using PR list



Using the number buttons, up / down buttons

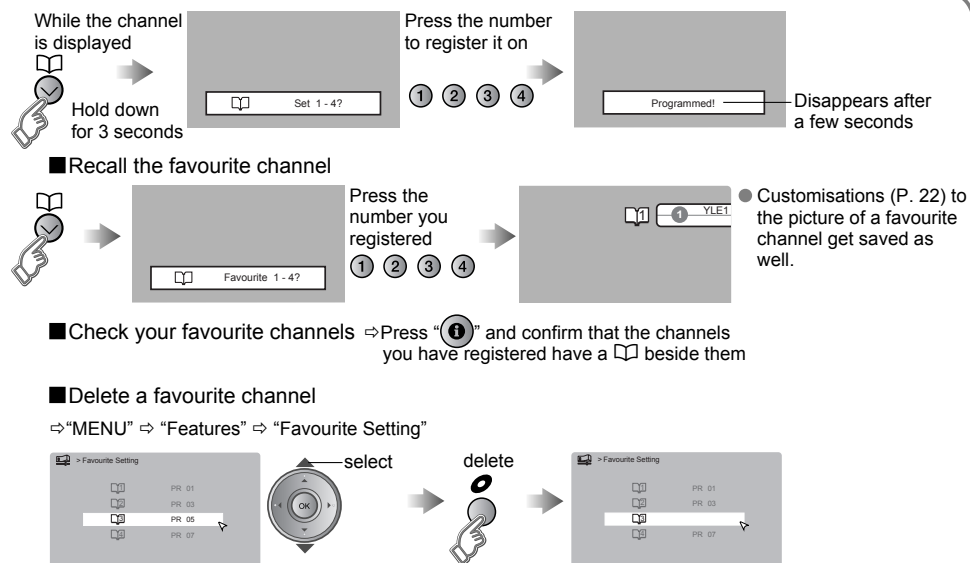


Basic operations using the front buttons



Register a channel to a button

FAVOURITE CHANNEL



Watching videos / DVDs

1 Select the video source

AV → EXT Mode

0 AV
1 EXT-1
2 EXT-2
3 EXT-3
4 EXT-4
5 HDMI1
6 HDMI2
7 PC
8 DTV

E.g. For EXT-1

2 Operate the connected device and play a video

■ Operate JVC recorders and other devices (P. 21)

Select the video source using the front buttons

1 TV/AV

2 Select the video source

3 MENU/OK

■ To TV

PC position adjustment

1 MENU Display the menu bar

2 Select "Set Up"

Select "PC Position"

Shown only when "PC" is selected.

3 Adjust

Reset position ⇒

Advanced functions

1 Display the menu bar

MENU

2 Select "Set Up"

Select "EXT Setting"

select next

Switch to S-VIDEO input

S-IN

① Select the "EXT" connected to S-VIDEO ② Set the S-VIDEO mode

EXT-1 EXT-2 EXT-3

select

S

■ The device selection display will change from "E1" to "S1".

■ Cancel this mode ⇒ Press "E" in ② again

Edit names of connected devices

ID LIST

① Select an "EXT" to assign a name to ② Show the name list

EXT-1 EXT-2 EXT-3

select

ID List

③ Select a name from the list

EXT-1 EXT-2 EXT-3

select

set

■ Clear the name ⇒ Select the blank space in ③

Set up dubbing on "EXT-2"

DUBBING

① Select the arrow ② Select the dubbing source

EXT-1 EXT-2 EXT-3

select


EXT-1 EXT-2 EXT-3




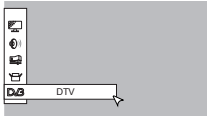
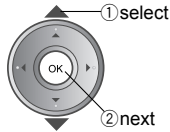
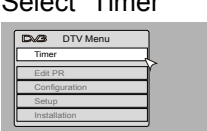
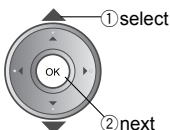
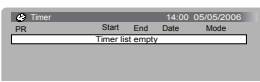

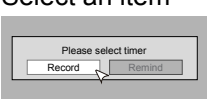
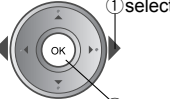


select


Using timer-record


DTV original function and setting, such as a recorder-linked timer-record setting, can be selected from the DTV menu.

ENGLISH



- Switch to digital channels**


 - When switching TV / RADIO
- Display the menu bar**

- Select "DTV"**


- Select "Timer"**


- Set "Timer"**


- Select an item**


 - Up to 20 programmes can be reserved.
- Cancel a reservation**
 Select the reservation. Press . Select "Yes" and press "OK" button.
- Change a reservation**
 Select the reservation and press "OK".
- Search for a channel using EPG**
 Press 

To the previous screen
 ⇒ 

Exit
 ⇒ 

DTV menu cannot be operated with the front buttons.

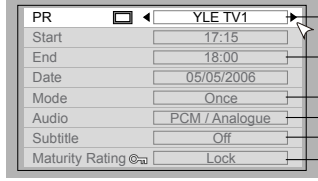
Reserve a programme to record

Record

Reserve a programme to watch

Remind

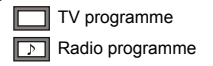

1 Input / confirm timer-record settings



- Select the channel
- Enter the time and date with number buttons
- Select the reservation mode (Once / Daily / Weekly)
- Normally set to "PCM / Analogue" (PCM / Analogue, Dolby Digital) ⇒ (P. 33)
- Set subtitle recording (Off / On)
- Lock the recording with the maturity rating (Lock / Unlock)

- A message will be displayed if there is problem with the reservation.
- In the following cases, enter the PIN code ⇒ "When entering the PIN Code" (P. 23)
 - When changing the "Maturity Rating" (P. 25)
 - When reserving the channel which is set to "Lock" (P. 28)

2 Set

At the start time, the channel will automatically change and the device connected to EXT-2 will begin recording the programme.

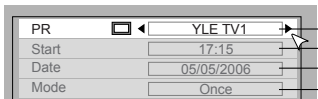
When "Maturity Rating" is set to "Unlock"

- If you reserved the programme using EPG, the screen will return to EPG instead. ⇒ Step 3 in "Timer" (P. 14)

3 Prepare for recording

- Set the recording device to external input mode before the start time.
- Manually set the timer on T-V LINK incompatible devices. For details, refer to the device's manual.
- Make sure that recording times on the recording device do not overlap with recording times on the TV.
- Some T-V LINK compatible DVD recorders may not work correctly.
- When the recording timer has been set, the LAMP indicator on the TV lights up orange 30 seconds before the recording starts, and will stay lit throughout the recording.

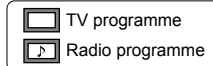

1 Input / confirm timer-record settings



- Select the channel
- Enter the time and date with number buttons
- Select the reservation mode (Once / Daily / Weekly)

- A message will be displayed if there is problem with the reservation.

2 Set

If the TV's power is off at the start time, nothing happens.

At the start time, the channel will automatically change.

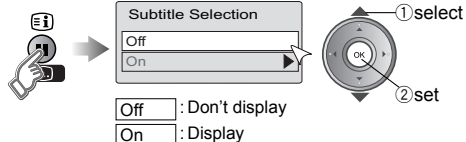
- If you reserved the programme using EPG, the screen will return to EPG instead. ⇒ Step 3 in "Timer" (P. 14)

Useful functions

View subtitles

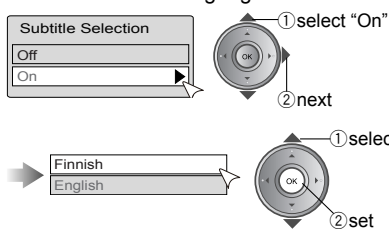
SUBTITLE

(Digital channels)



- By default, the language set in "Subtitle Language" (P. 25) is automatically selected. When not broadcast in that language, another broadcast language is automatically selected.
- When no subtitles are broadcasted, "No Subtitles" is displayed.

Switch to another language



- ② : Special subtitles for the hearing impaired
- Undefined : When the subtitle's language cannot be identified

- The language that can be selected depends on the broadcast.

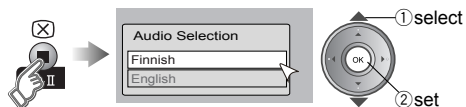
Select audio language

AUDIO SELECTION

(Digital channels)

By default, the language set in "Audio Language" (P. 25) is automatically selected. When not broadcast in that language, another broadcast language is automatically selected.

Switch to another language



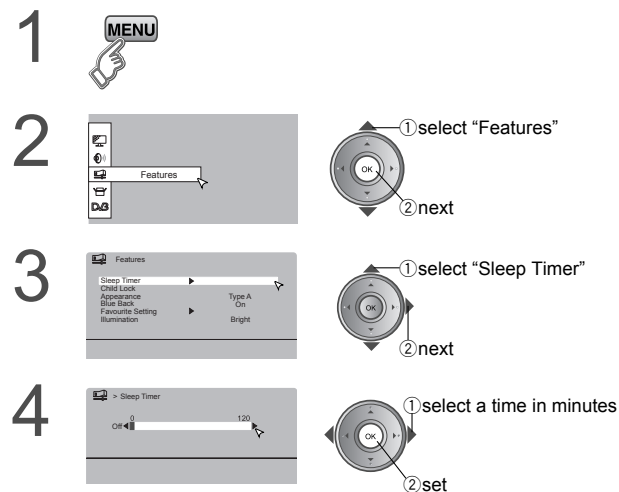
- ⦿ : Special audio track for the visually impaired
- Undefined : When the audio's language cannot be identified

Dolby : Dolby Digital

- The language that can be selected depends on the broadcast.
- Please read "Dolby Digital" output from the "DIGITAL AUDIO OUT" terminal" (P. 33) before selecting "Dolby."

Set a time for the TV to turn itself off

SLEEP TIMER



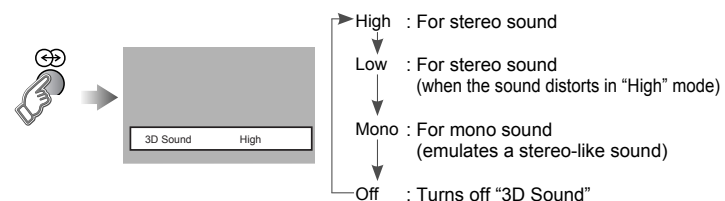
- Cancel ⇒ Set the time to "0" in step 4

Remaining time

⇒ You can confirm the remaining time in step 4, after repeating this process.

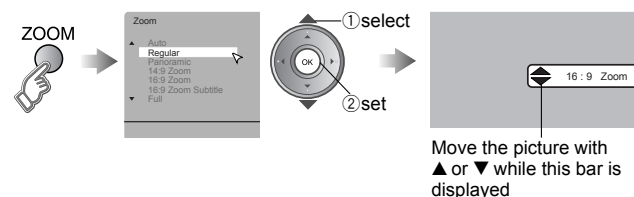
Enjoy ambient sound

3D SOUND



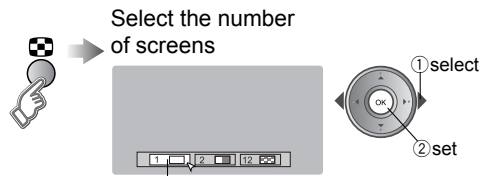
Change the aspect ratio

ZOOM



- Using "Auto" ⇒ "Auto in "Zoom"" (P. 33)
- When 1080p (1125p) / 1080i (1125i) / 720p (750p) signal is received, the signal will be displayed as "Full". The zoom menu will not be displayed.
- In PC mode, "Regular" or "Full" can be selected.

Useful functions (continued)



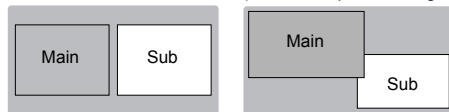
Selecting "1" returns to normal viewing mode

- Not available in the following cases:
 - when in PC mode
 - when 1080p (1125p) signal is received

■ Watch in dual-picture mode

E.g. You can watch TV and video at the same time.

(For wide aspect ratio signals)



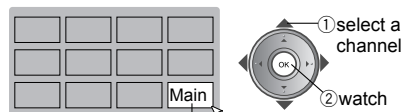
- Switch between the sound sources
⇒

- Change the channel
⇒ (Main)
⇒ (Sub)

- When watching digital channels, there may be occasions where the aspect ratio changes, for example during commercials. In this case, the layout of the screen in dual-picture mode changes automatically according to the aspect ratio signal.

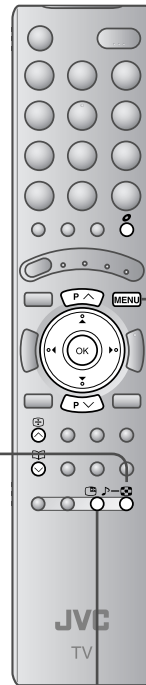
■ Select an analogue channel in 12-screen mode

All registered channels are displayed as still images.



Only the selected frame has a moving picture.

- Move up or down a page ⇒
- Not available when in digital channels, EXT-5 or EXT-6 input.

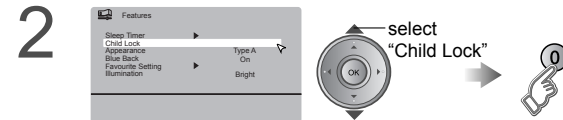


Stop children from watching specific channels

CHILD LOCK

(Analogue channels)

- 1 Display "Features" menu
⇒ "Customising your TV" (P. 22)



- 3
 - ① enter an "ID No." (a secret number of your choice)
 - ② to the next column
 - ③ set

- 4
 - ① select a channel
 - ② lock / release
 - ③ set

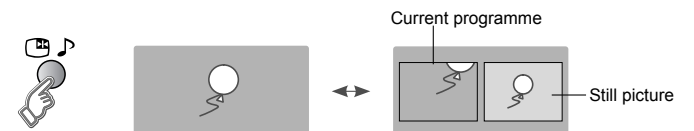
■ View a locked channel

⇒ Use the numerical buttons to enter the channel number. When appears, press and enter your "ID No." (If you forget your "ID No.", check it in step 3.)

Take snapshots of the screen

FREEZE

(Analogue channels)



■ Cancel ⇒ Press again, or change the channel

- Not available in the following cases:
 - when the SUB-PICTURE is displayed
 - when watching digital channels
 - when in PC mode
 - when 1080p (1125p) signal is received
- You cannot save or export the snapshot.

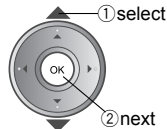
Customising your TV



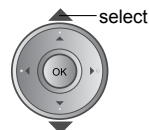
1 Display the menu bar



2 Select a menu



3 Select an item



■ To the previous screen

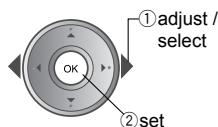
⇒ **BACK**

■ Exit

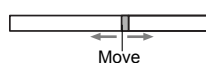
⇒ **MENU**

● The menu disappears after one minute of inactivity.

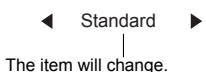
4 Adjust / Configure



■ When adjusting with the sliding-bar

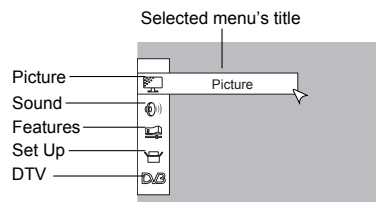


■ When selecting from presets

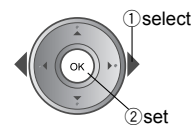
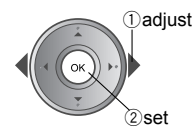
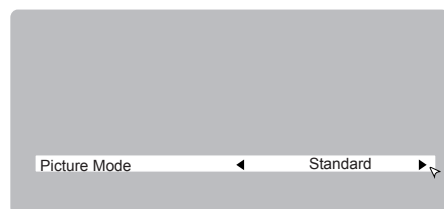
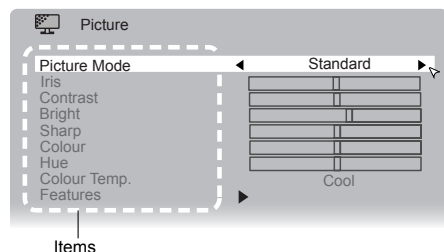


The item will change.

● Some items have a sub-menu.



● DTV menu is available only when watching digital channels. ⇒ (P. 23)




Menu	Item	Adjustments / Configurations
Picture	Picture Mode	Picture mode (Bright / Standard / Soft)
	Iris	Adjust the amount of light projected on the screen (Darker ⇄ Brighter)
	Contrast	Contrast (Lower ⇄ Higher)
	Bright	Brightness (Darker ⇄ Brighter)
	Sharp	Sharpness (Softer ⇄ Sharper)
	Colour	Colour (Lighter ⇄ Deeper)
	Hue	Tint for NTSC (Reddish ⇄ Greenish)
	Colour Temp.	Colour temperature (Warm / Normal / Cool)
	Features	Finer picture adjustments (P. 24)
Sound	Stereo / I · II	Mode / Language (O : MONO / ∞ : STEREO / I : SUB1 / II : SUB2)
	Bass	Low tones (Weaker ⇄ Stronger)
	Treble	High tones (Weaker ⇄ Stronger)
	Balance	Speaker balance (Left Stronger ⇄ Right Stronger)
	3D Sound	Ambience level (High / Low / Mono / Off)
	MaxxBass **	Emphasize the bass sound (Off / Low / High)
Features	Sleep Timer	Timer for turning off the TV (P. 19)
	Child Lock	Stops children from watching specific channels (P. 20)
	Appearance	Format for displaying the channel number (Type A / Type B)
	Blue Back	Displays a blue screen and mute the sound when the signal is weak or absent (On / Off)
	Favourite Setting	Clear favourite channel settings (P. 16)
	Illumination	Changes the brightness of the power lamp (P. 6) (Bright / Soft)
Set Up	Auto Program	Select a country, it automatically registers channels (P. 11, ④)
	Edit / Manual	Change registered channels or add new ones (P. 29)
	Language	Select a language for on-screen analogue channel displays and menus (excluding the DTV menu) (P. 11, ⑤)
	Decoder (EXT-2)	When connected to VCR with "T-V LINK" (On / Off)
	Component Auto Select	Changes the TV input to "EXT-3" when a component signal is input to "EXT-3" (On / Off) (Not available when viewing PC)
	EXT Setting	For use with video players and other devices (P. 17)
	HDMI Setting	HDMI CEC : Connect and control multiple HDMI CEC enabled devices with a single remote (On / Off) (P. 34) HDMI-1 (EXT-5) : Size (1 / 2 / Auto), Audio (Digital / Analogue / Auto) HDMI-2 (EXT-6) : Size (1 / 2 / Auto)
	Attenuator	When digital channels are not received because of too strong radio waves (On / Off)
	PC Position	PC position adjustment (P. 17)
	Lamp Timer Reset	Resets the lamp timer (P. 5)

● Other settings · Change the aspect ratio ⇒ "ZOOM" (P. 19)
· Turn on "3D Sound" ⇒ "3D SOUND" (P. 19)


*1 MaxxBass is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.


Using DTV menu

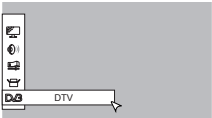
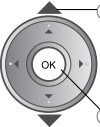
Digital channels original function and setting can be selected from the DTV menu.

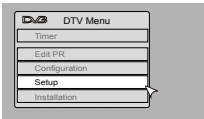
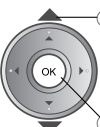


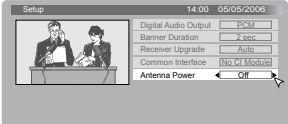

- Switch to digital channels


- Display the menu bar

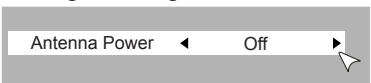


- Select "DTV"



- Select "Setup"




- Select an item

E.g. "Antenna Power"
- Change setting

E.g. "Antenna Power"
- Finish



■ To the previous screen
⇒ **BACK**

■ Exit
⇒ **MENU**

● DTV menu cannot be operated with the front buttons.

Menu	Item	Adjustments / Configurations
DTV	Timer	Reserve a programme to record / watch (P. 18)
	Edit PR	Edit / Delete / Lock registered digital channels or add them to favourites (P. 28)
	Configuration	Country
		Time Zone
		Menu Language
		Audio Language
		Subtitle Language
		Teletext Language
		EPG Language
		Enter PIN Code
		Favourite Mode
		Maturity Rating
	Setup	Digital Audio Output
		Banner Duration
		Receiver Upgrade
		Common Interface
	Installation	Antenna Power
		Service Scan
		Signal Check
		Factory Settings

When entering the PIN code

When watching digital channels or changing DTV menu settings, it may be necessary for you to enter a PIN code.

Once a PIN code has been entered, there is no need to enter it again until the TV is turned off.

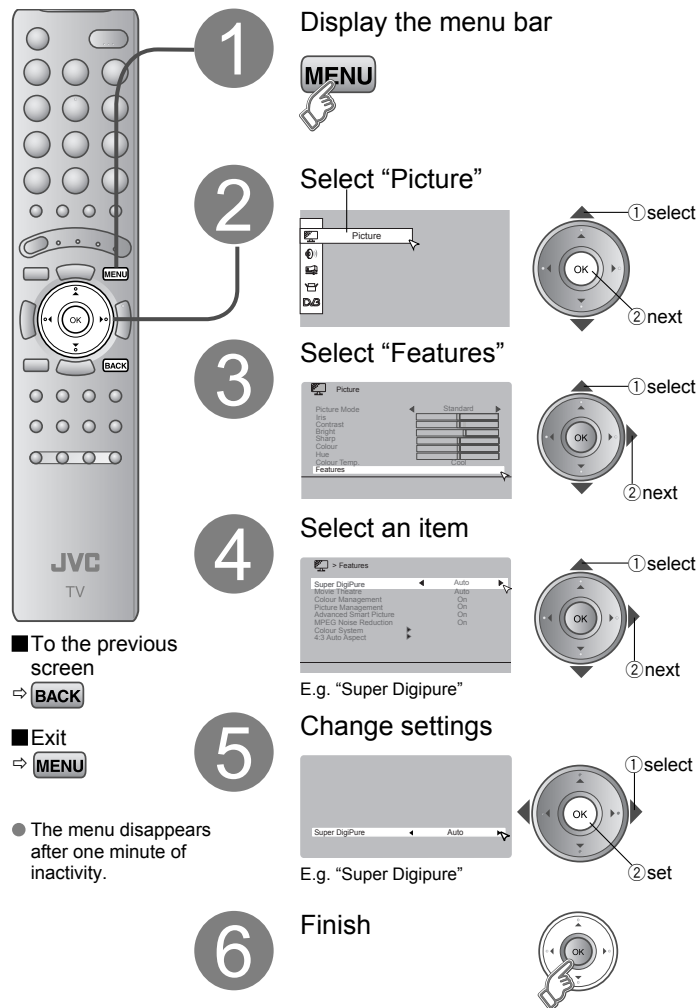
● The default PIN code is "0000".

● You can set your own PIN code. ⇒ "Enter PIN Code" (P. 25)

Advanced picture adjustment

By default, the TV automatically adjusts itself for the best picture.

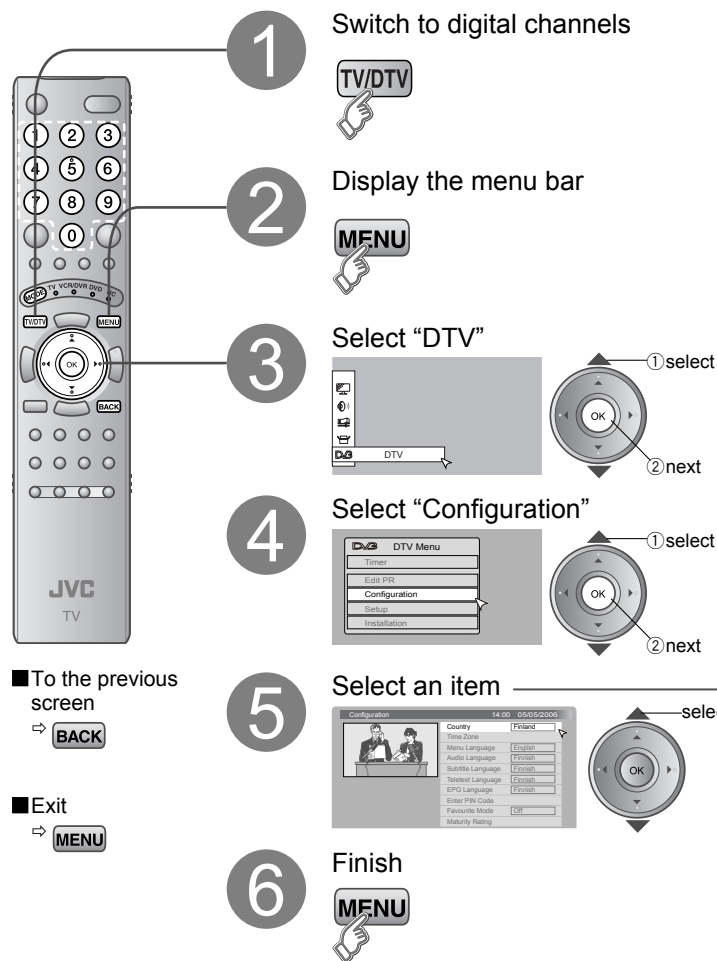
ENGLISH



Super DigiPure	For natural-looking outlines	<input type="text" value="Auto"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="Min"/> : When the picture loses sharpness <input type="button" value="Max"/> : When noise appears <input type="button" value="Auto"/> : Automatically adjusts
Movie Theatre	For smooth cinema film	<input type="text" value="Auto"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="On"/> : Function is always on <input type="button" value="Auto"/> : Automatically adjusts
Colour Management	For natural-looking pictures	<input type="text" value="On"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="On"/> : Maintain a natural colour balance
Picture Management	Fix bright / dark pictures	<input type="text" value="On"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="On"/> : Make it easier to view bright / dark pictures
Advanced Smart Picture	Fix brightness of white areas	<input type="text" value="On"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="On"/> : Make it easier to view white areas <p>● Not available when "Picture Mode" is set to "Bright" (P. 22).</p>
MPEG Noise Reduction	To reduce MPEG video noise	<input type="text" value="On"/> <input type="button" value="Off"/> : Function is turned off <input type="button" value="On"/> : When noise appears
Colour System	When there is no colour	<p>① Select the screen to change settings on</p> <input type="button" value="Main"/> : Main picture <input type="button" value="Sub"/> : Sub-picture in MULTI-PICTURE mode (P. 20) <p>② Select the colour system</p> <input type="button" value="PAL"/> : Western Europe <input type="button" value="SECAM"/> : Eastern Europe / France <input type="button" value="NTSC 3.58"/> : USA 3.58 MHz <input type="button" value="NTSC 4.43"/> : USA 4.43 MHz <input type="button" value="Auto"/> : When watching videos, etc.
4:3 Auto Aspect	Set a default aspect ratio	<p>Select a default aspect ratio for "Auto" in "Zoom" (P. 19)</p> <input type="button" value="Panoramic"/> : 16 : 9 <input type="button" value="Regular"/> : 4 : 3 <input type="button" value="14:9 Zoom"/> : 14 : 9

DTV configuration

Available for favourite channel selection, changing PIN code, and selecting maturity rating, etc.



■ To the previous screen
⇒ BACK

■ Exit
⇒ MENU

Note

When not broadcast in the default language, on-screen displays and audio output in that language are not available. In this case, the language that can be displayed and heard depends on the broadcast.

*1 The languages will differ depending on the Country setting.
(The illustrations are for Finland)

*2 The maturity rating may differ depending on the Country setting.
(The illustrations are for Finland)

Country

Select the country of installation

Finland Germany Spain Sweden France

Menu Language

Select a language for on-screen menus

English Suomi Svenska Français
Castellano Català Deutsch

Audio Language

Select a default language for audio*1

Finnish Swedish English
For visually impaired

Subtitle Language

Select a default language for subtitle*1

Finnish Swedish English
For hearing impaired

Teletext Language

Select a default language for teletext*1

Finnish Swedish English

EPG Language

Select the default language for programme name and programme information*1

Finnish Swedish English

Change PIN code

Enter PIN Code

1 Select "Enter Pin Code"



2 Input the current code

Default is "0000".
⇒ "When entering the PIN code" (P. 23)
● If you forget the code, input "0081"

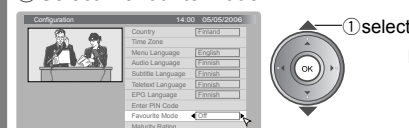
3 Input a new code twice



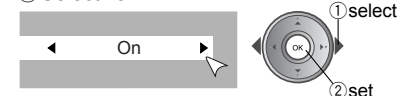
Enable your favourite channels

Favourite Mode

1 Select "Favourite Mode"



2 Select "On"



● If you cannot select "On", register channels in "favourites" first ⇒ "Favourites" (P. 28)

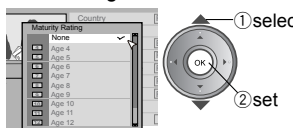
Set the viewing age limit

Maturity Rating

1 Select "Maturity Rating"



2 Select age*2



● Only programmes with a maturity rating can be restricted.
● To watch the restricted programme, the PIN code must be entered.

● Time Zone: Select the time zone when the clock is wrong ⇒ "Set the clock to the right time" (P.33)

ENGLISH

IMPORTANT!

PREPARE

USE


SETTINGS



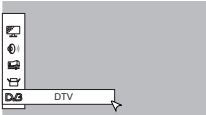
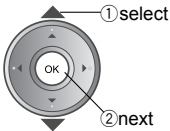
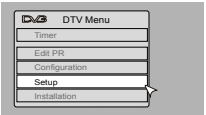
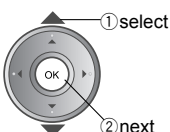
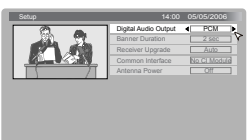
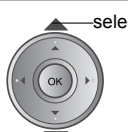

TROUBLE?


DTV setup


Available for setting power supply for the aerial, and upgrading the tuner software, etc.

ENGLISH



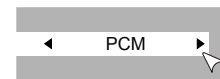
- 1 Switch to digital channels

- 2 Display the menu bar

- 3 Select "DTV"
  ① select
② next
- 4 Select "Setup"
  ① select
② next
- 5 Select an item
  select
- 6 Finish


■ To the previous screen
⇒ 

■ Exit
⇒ 

Output the Dolby Digital signal

Digital Audio Output



PCM
: The Linear PCM signal is output

Dolby Digital
: The Dolby Digital signal is output
● Only when the Dolby Digital signal is received

● Please read "Dolby Digital output from the "DIGITAL AUDIO OUT" terminal" (P. 33) before setting.

You can upgrade the tuner software as newer versions become available. Normally set to "Auto".

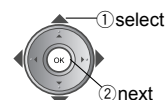
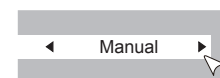


Auto
: Automatically download and install software upgrades
● This occurs at midnight when the TV's power is off.

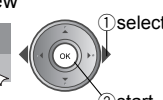
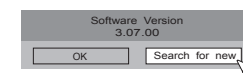
Manual
: Manually download and install software upgrades
● When you change the setting, enter PIN code.

■ When JVC or the broadcasting station informs you of the new software, download it as follows.

① Select "Manual"

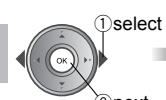


② Select "Search for new"



● If upgrading is not necessary, select "OK" to finish.

③ Select "Yes"

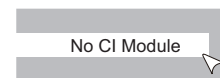


"Software upgraded successfully! TV will now reset!"



● If the TV has upgrade to the latest tuner software, the message "Search completed. No new software found" will appear.
● Select "In standby" instead of "Yes" if you want to upgrade the software automatically when the TV is turned off.

To watch pay-TV digital channels, use the Conditional Access Module menu.
This function can only be used when pay-TV can be received in your region.



No CI Module
: Function is not available

● When the Conditional Access Module etc. is inserted after subscribing to the broadcasting company, this function is available. ⇒ "Watch pay-TV digital channels" (P. 7)

① Press "OK" button to display the Conditional Access Module menu

② Follow the instructions on the screen to set up pay-TV

● The content of the menu is different depending on the broadcasting company.
⇒ For details, consult your broadcasting company
● The language shown in the menu may differ to the "Menu Language" set for the TV. (P. 23)

Power supply for the indoor aerial

Antenna Power



Off
: Power not supplied



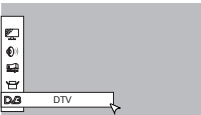
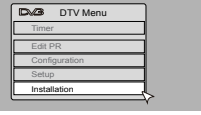
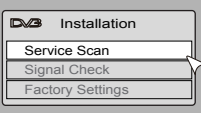

On
: Power supplied

● Please read "Power supply for the indoor aerial" (P. 33) before setting.

● Banner Duration: Select the display time for channel information (2 sec / 5 sec / 8 sec).

DTV installation

Available for registration of digital channels, checking of digital channel signal, and initialisation of all digital channel settings.

- 1 Switch to digital channels

- 2 Display the menu bar

- 3 Select "DTV"

- 4 Select "Installation"

- 5 Select an item

- 6 Finish


■ To the previous screen
 ⇒ **BACK**

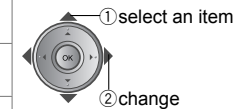
■ Exit
 ⇒ **MENU**

Register a new channel

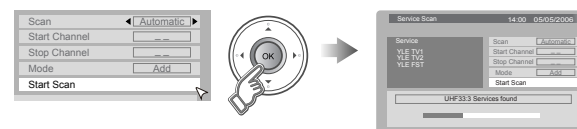
Service Scan

① Set items

Scan	Automatic : Scan automatically Manual : Scan a specified channel range Network : You can select and register only necessary networks.
Start Channel	Specify a scanning channel range (For "Manual")
Stop Channel	
Mode	Add : Add a new channel to the registered channel Reinstall : Register all channels again



② Select "Start scan"

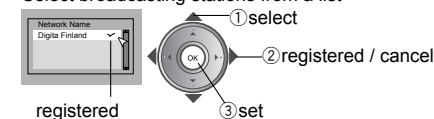


③ Select "Yes"



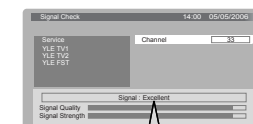
■ For "Network"

Select broadcasting stations from a list



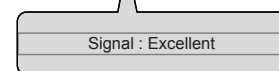
Check the broadcast signal

Signal Check



● This channel is the frequency of the digital broadcasting. It differs from the channel number displayed on the TV.

● Select another broadcast channel ⇒



Initialise the DTV settings

Factory Settings

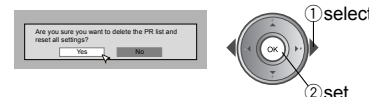
All registered digital channels are deleted and the DTV menu settings are initialised. Digital channels are reregistered.

① Enter PIN code



● Default is "0000".
 ⇒ "When entering the PIN code" (P. 23)

② Select "Yes"

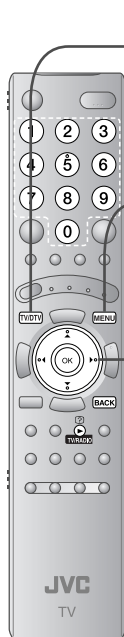


2 in "Initial settings" (P. 10)

Editing digital channels

Edit the digital channels registered with "Initial settings" (P. 10).

ENGLISH



- 1 Switch to digital channels
TV/DTV
- 2 Display the menu bar
MENU
- 3 Select "DTV"
OK
- 4 Select "Edit PR"
OK
- 5 Select a channel
OK
- 6 Edit
OK
- 7 Finish
MENU

■ When switching TV / RADIO
TV RADIO

■ To the previous screen
⇨ BACK

■ Exit
⇨ MENU

Edit a channel name

Name

Edit a channel number

Number

Delete a channel

Delete

Stop Children from watching specific channels

Lock

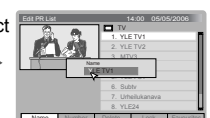
Register your favourite channel

Favourites

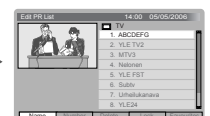
1 Select "Name"



2 Change the name



3 Set



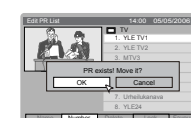
1 Select "Number"



2 Change the number

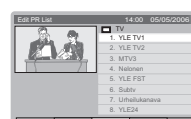


3 Select "OK"

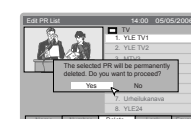


- Only when the same channel number exists.
- The channels are rearranged in numerical order.

1 Select "Delete"



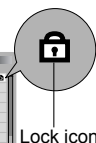
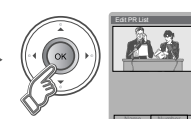
2 Select "Yes"



1 Select "Lock"

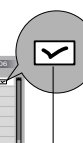
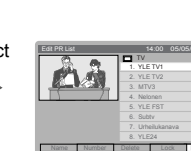


2 Lock



- To release, press "OK" button again.
- To enable "Lock" function, turns the TV off and on again.
- To watch the locked channels, the PIN code must be entered.

1 Select "Favourites"



- To move through only your favourite channels and have them appear in the PR list.
⇨ "Favourite Mode" (P. 25)

- To release, press "OK" button again.

Editing analogue channels

Edit the channels registered with "Auto Program" in "Initial settings" (P. 11).

When coming from "Initial settings" (P. 11), skip to ⑤.

- 1 **Switch to analogue broadcasting**
TV/DTV
- 2 **Display the menu bar**
MENU
- 3 **Select "Set Up"**
- 4 **Select "Edit / Manual"**
- 5 **Select a row**
- 6 **Edit**
- 7 **Confirm settings**
- 8 **Finish**

■ To the previous screen
⇒ BACK

■ Exit
⇒ MENU

■ When using "T-V LINK"

■ When not using "T-V LINK"

TV/DTV

● If "Feature Not Available" appears:
⇒ Is a "T-V LINK" compatible device connected to "EXT-2"?
⇒ Is the device turned on?
● "T-V LINK" ⇒ (P. 10)

Move a channel's position

MOVE

Edit a channel name

ID

Insert a channel

INSERT

Delete a channel

DELETE

Register a new channel

MANUAL

- ① Begin
- ② Select a destination
- ③ Finish

move out

select

move in

- ① Begin
- ② Enter a channel name
- When selecting a preset name from the "ID List"
- ① select
- ② set
- When manually naming a channel
- ① enter
- ② next column
- ③ set

- ① Begin
- ② Select a "CH / CC"
- ③ Enter a number

● "CH/CC" List ⇒ (P. 32)

● Receives the broadcast signal.

- ① Delete

- ① Begin
- ② Beginning channel search
- From high frequencies (red)
- From low frequencies
- If necessary, press ► to change the broadcasting system.
⇒ "Receivable broadcast systems (Analogue channels)" (P. 33)
- ③ Set

Auto-search begins, and the nearest frequency is imported.
⇒ Repeat the previous steps until the desired channel is displayed

Adjust

● Picture fine tuning ⇒

● Sound fine tuning ⇒

select a system

Troubleshooting

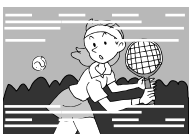
■ Analogue channels

Severe noise or snow



- Is the TV connected correctly to the aerial?
 - Change the direction of the aerial.
 - Is the aerial or its cable damaged?
- ⇒ Consult your retailer

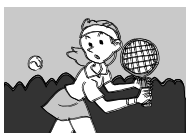
Patterns, stripes or noise



- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?
- ⇒ Consult your retailer
- Are connected devices too close to the TV?
- ⇒ Insert the minimum distance between the aerial and the cause of interference until no interference

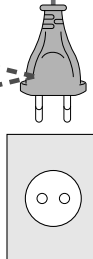
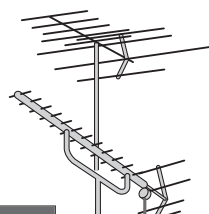
Ghosting

(Doubling of images)



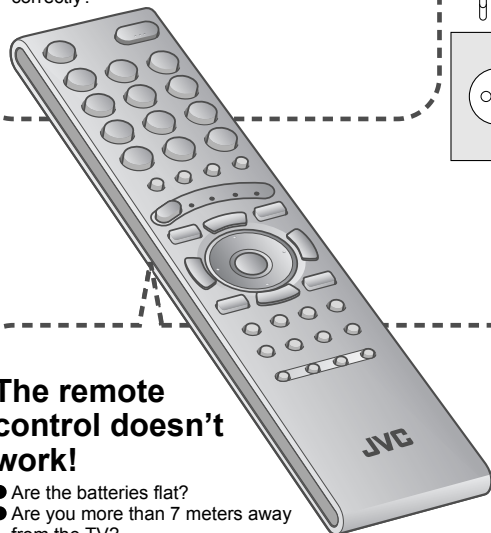
- Are you receiving interference from signals reflected off mountains or buildings?
- ⇒ Adjust the direction of your aerial, or change to a good-quality directional aerial

■ Digital channels ⇒ (P. 11)



I can't turn it on!

- Is the power cord connected to the AC outlet correctly?



The remote control doesn't work!

- Are the batteries flat?
- Are you more than 7 meters away from the TV?
- Is the "MODE (TV, VCR/DVR, DVD, HC)" set to "TV"?
- When viewing teletext, the TV menu bar does not appear.
- Depending on the stability of the signal, there may be a time lag when changing channels.

Problem		Actions		page
Basics	Not displayed (black screen)	<ul style="list-style-type: none">● Is the analogue channel reception poor, too? ⇒ Following the instructions in "Severe noise or snow" can solve this problem (see left).● Digital channels are not displayed. ⇒ "When the TV cannot find the digital channels"● There may be problems at the aerial, radio waves, or the area you live in, where reception is bad. ⇒ Consult your retailer.		11 —
	Remote control stops working	<ul style="list-style-type: none">● Unplug TV, several minutes later plug it in again.		—
	Digital channel screen is frozen	<ul style="list-style-type: none">● Hold down "TV/AV" and "MENU/OK" on the TV simultaneously for three or more seconds to restart.		—
	Some functions do not work	<ul style="list-style-type: none">● It is not a malfunction. Some functions (dark background) in the menu do not work depending on the situation.		—
	Front control buttons do not work	<ul style="list-style-type: none">● Switch "Child Lock" to "Off."		20 22
Screen	Aspect ratio changes unintentionally	<ul style="list-style-type: none">● Press "ZOOM" to return to your settings.		19
	PC screen alignment is off	<ul style="list-style-type: none">● Adjust the "PC Position".		17
	The screen is dim	<ul style="list-style-type: none">● Adjust the "Iris" brighter.		22
	Black or white dots appear on the screen	<ul style="list-style-type: none">● Although the HD-ILA element is manufactured with high-precision technology, please understand that some pixels may be lost or permanently displayed.		—
Sound	Poor sound	<ul style="list-style-type: none">● Adjust the "Bass" and "Treble".● If receiving a poor signal in "Stereo / I-Ⅱ", switch to "Mono".		22 22
	No sound from the audio component	<ul style="list-style-type: none">● Audio signals received from EXT-5 and EXT-6 cannot be sent to the "AUDIO OUT" terminal.		—

Troubleshooting (continued)

	Problem	Actions	page
HDMI	Wrong screen size	● Switch "Size" in "HDMI Setting" to "1" or "2".	22
	No picture, no sound	● Use the cable marked with HDMI logo. HDMI	—
	No sound	● Check if the device is compliant with HDMI. ● Switch "Audio" in "HDMI Setting" to "Digital" or "Auto" for HDMI devices, or "Analogue" or "Auto" for DVI devices. (Not available for "EXT-6".)	22
	Green and distorted screen	● Wait a little for the signal to stabilize when switching the signal format for an "HDMI" device.	—
Error message	"Feature Not Available"	● Is the T-V LINK compatible device connected to EXT-2? ● Is the SCART cable "Fully Wired"? ● Is the T-V LINK compatible device turned on? After confirming all the conditions above, press "OK" button again.	33 — —
	"ACI Error"	● Press ◀ to start ACI again. If you still receive the "ACI Error" after numerous tries, press ▶ to cancel ACI.	—
	"No Recording"	● A problem occurs at the recorder.	—
	"No Recording Possible"	● The displayed video cannot be recorded.	—
	"No Recording Media Problem"	● The recorder is not ready for recording. Check the video tape or DVD disc.	—
	"No Recording Device Busy"	● The recorder is recording another programme, or is playing.	—

	Problem	Actions	page
Picture	Poor picture quality	● Unnatural colour >>> Adjust "Colour" and "Bright". Check your "Colour System". ● Noise >>> Set to the following functions. Picture Mode : Standard Super DigiPure : Max ● Dull picture >>> Set to the following functions. Picture Mode : Bright Super DigiPure : Min	22 24 22 24 22 24
	Strange picture when using an external device	● If you connected S-Video output device, check the "S-IN" setting. ● If the top of the image is distorted, check the video signal quality itself. ● If movement appears unnatural when receiving a signal from a DVD player, etc. with 625p (progressive scanning), change the output setting of the external device to 625i (interlaced scanning).	17 — —
	Blue screen appears on the screen	● Switch "Blue Back" to "Off."	22
Lamp	The LAMP indicator blinks rapidly	● Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (It may be a malfunction of the internal electrical circuits.)	—
	The power lamp and LAMP indicator blink alternately	● Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (The inside temperature rises abnormally or the fan may be blocked.)	—
	The power lamp and LAMP indicator blink rapidly simultaneously	● If this condition occurs soon after replacing the lamp, reinstall the new lamp unit. (The lamp unit may not be inserted into the lamp housing correctly.) Repeat the lamp installation steps, taking care to observe all warnings. - Make sure the lamp sits flat inside the housing area. - Make sure the lamp cover is reinstalled. ● If this condition occurs except for replacing the lamp, keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (It may be a lamp malfunction.)	4 —

Troubleshooting (continued)

ENGLISH

Functions

DTV

Some inputs cannot be selected in the sub-picture	<ul style="list-style-type: none"> “EXT-3”, “EXT-5”, “EXT-6” inputs and PC mode cannot be selected in the sub-picture. RGB input signal of “EXT-1” and “EXT-2” are not available in dual-picture mode. 	—
No picture, no sound	<ul style="list-style-type: none"> Some digital channels cannot be watched on this TV. 	33
“Dolby Digital selected! No analogue audio available”	<p>When “Dolby Digital” is selected in “Digital Audio Output”, the sound of a programme containing “Dolby Digital” signals cannot be output from the TV or the audio system connected to the “AUDIO OUT” terminal.</p> <p>When the channel is changed, a message will be displayed for a few seconds.</p> <ul style="list-style-type: none"> To listen with the TV or audio system <ul style="list-style-type: none"> ⇒ Select a language without “Dolby” from “Audio Selection” ⇒ Switch “Digital Audio Output” to “PCM” 	33 19 26
Forgot my PIN code!	<ul style="list-style-type: none"> The default PIN code is “0000”. If you forget the numbers that you used to change the default PIN code, first input “0081” in the “Enter PIN code” and then register a new PIN code. 	25
Locked channels can be watched without inputting PIN code	<ul style="list-style-type: none"> Once the PIN code is input, all the lock functions (“Lock” and “Maturity Rating”) are released. If you want to use the lock function again, turn the TV off and then turn it on again. 	—
When JVC or the broadcasting station informs you of the software	<ul style="list-style-type: none"> Upgrade the tuner software by using the “Receiver Upgrade” function. 	26
When the clock is wrong	<ul style="list-style-type: none"> Set the time zone. ⇒ “Set the clock to the right time” 	33

“CH/CC” List

To use the INSERT function (P. 29), find the “CH/CC” number corresponding to the TV’s Channel number from this table.

● When the Country setting is “France”, select a three-digit CH/CC number.

CH	Channel
CH 02/CH 202	E2, R1
CH 03/CH 203	E3, ITALY A
CH 04/CH 204	E4, ITALY B, R2
CH 05/CH 205	E5, ITALY D, R6
CH 06/CH 206	E6, ITALY E, R7
CH 07/CH 207	E7, ITALY F, R8
CH 08/CH 208	E8, R9
CH 09/CH 209	E9, ITALY G
CH 10/CH 210	E10, ITALY H, R10
CH 11/CH 211	E11, ITALY H+1, R11
CH 12/CH 212	E12, ITALY H+2, R12
CH 21/CH 221	E21, R21
CH 22/CH 222	E22, R22
CH 23/CH 223	E23, R23
CH 24/CH 224	E24, R24
CH 25/CH 225	E25, R25
CH 26/CH 226	E26, R26
CH 27/CH 227	E27, R27
CH 28/CH 228	E28, R28
CH 29/CH 229	E29, R29
CH 30/CH 230	E30, R30
CH 31/CH 231	E31, R31
CH 32/CH 232	E32, R32
CH 33/CH 233	E33, R33
CH 34/CH 234	E34, R34
CH 35/CH 235	E35, R35
CH 36/CH 236	E36, R36
CH 37/CH 237	E37, R37
CH 38/CH 238	E38, R38
CH 39/CH 239	E39, R39

CH	Channel
CH 40/CH 240	E40, R40
CH 41/CH 241	E41, R41
CH 42/CH 242	E42, R42
CH 43/CH 243	E43, R43
CH 44/CH 244	E44, R44
CH 45/CH 245	E45, R45
CH 46/CH 246	E46, R46
CH 47/CH 247	E47, R47
CH 48/CH 248	E48, R48
CH 49/CH 249	E49, R49
CH 50/CH 250	E50, R50
CH 51/CH 251	E51, R51
CH 52/CH 252	E52, R52
CH 53/CH 253	E53, R53
CH 54/CH 254	E54, R54
CH 55/CH 255	E55, R55
CH 56/CH 256	E56, R56
CH 57/CH 257	E57, R57
CH 58/CH 258	E58, R58
CH 59/CH 259	E59, R59
CH 60/CH 260	E60, R60
CH 61/CH 261	E61, R61
CH 62/CH 262	E62, R62
CH 63/CH 263	E63, R63
CH 64/CH 264	E64, R64
CH 65/CH 265	E65, R65
CH 66/CH 266	E66, R66
CH 67/CH 267	E67, R67
CH 68/CH 268	E68, R68
CH 69/CH 269	E69, R69

CC	Channel
CC 01/CC 201	S1
CC 02/CC 202	S2
CC 03/CC 203	S3
CC 04/CC 204	S4
CC 05/CC 205	S5
CC 06/CC 206	S6
CC 07/CC 207	S7
CC 08/CC 208	S8
CC 09/CC 209	S9
CC 10/CC 210	S10
CC 11/CC 211	S11
CC 12/CC 212	S12
CC 13/CC 213	S13
CC 14/CC 214	S14
CC 15/CC 215	S15
CC 16/CC 216	S16
CC 17/CC 217	S17
CC 18/CC 218	S18
CC 19/CC 219	S19
CC 20/CC 220	S20
CC 21/CC 221	S21
CC 22/CC 222	S22
CC 23/CC 223	S23
CC 24/CC 224	S24
CC 25/CC 225	S25
CC 26/CC 226	S26
CC 27/CC 227	S27
CC 28/CC 228	S28
CC 29/CC 229	S29
CC 30/CC 230	S30

CC	Channel
CC 31/CC 231	S31
CC 32/CC 232	S32
CC 33/CC 233	S33
CC 34/CC 234	S34
CC 35/CC 235	S35
CC 36/CC 236	S36
CC 37/CC 237	S37
CC 38/CC 238	S38
CC 39/CC 239	S39
CC 40/CC 240	S40
CC 41/CC 241	S41
CC 75/CC 275	X
CC 76/CC 276	Y, R3
CC 77/CC 277	Z, ITALY C, R4
CC 78/CC 278	Z+1, R5
CC 79/CC 279	Z+2

CH	Channel
CH 102	F2
CH 103	F3
CH 104	F4
CH 105	F5
CH 106	F6
CH 107	F7
CH 108	F8
CH 109	F9
CH 110	F10
CH 121	F21
CH 122	F22
CH 123	F23
CH 124	F24
CH 125	F25
CH 126	F26
CH 127	F27
CH 128	F28
CH 129	F29
CH 130	F30
CH 131	F31
CH 132	F32
CH 133	F33
CH 134	F34
CH 135	F35
CH 136	F36
CH 137	F37
CH 138	F38
CH 139	F39
CH 140	F40

CH	Channel
CH 141	F41
CH 142	F42
CH 143	F43
CH 144	F44
CH 145	F45
CH 146	F46
CH 147	F47
CH 148	F48
CH 149	F49
CH 150	F50
CH 151	F51
CH 152	F52
CH 153	F53
CH 154	F54
CH 155	F55
CH 156	F56
CH 157	F57
CH 158	F58
CH 159	F59
CH 160	F60
CH 161	F61
CH 162	F62
CH 163	F63
CH 164	F64
CH 165	F65
CH 166	F66
CH 167	F67
CH 168	F68
CH 169	F69

CC	Frequency (MHz)
CC 110	116-124
CC 111	124-132
CC 112	132-140
CC 113	140-148
CC 114	148-156
CC 115	156-164
CC 116	164-172
CC 123	220-228
CC 124	228-236
CC 125	236-244
CC 126	244-252
CC 127	252-260
CC 128	260-268
CC 129	268-276
CC 130	276-284
CC 131	284-292
CC 132	292-300
CC 133	300-306
CC 141	306-311
CC 142	311-319
CC 143	319-327
CC 144	327-335
CC 145	335-343
CC 146	343-351
CC 147	351-359
CC 148	359-367
CC 149	367-375
CC 150	375-383
CC 151	383-391

CC	Frequency (MHz)
CC 152	391-399
CC 153	399-407
CC 154	407-415
CC 155	415-423
CC 156	423-431
CC 157	431-439
CC 158	439-447
CC 159	447-455
CC 160	455-463
CC 161	463-469

Technical information

What is "T-V LINK"?

"T-V LINK" allows the TV to share information easily with a connected "T-V LINK" compatible device.
By using T-V LINK :

- You can send the channel information programmed on the TV to the "T-V LINK" compatible device, so that both the TV and the external device have the same channel settings. When connecting a new external device, channel information is loaded into it, allowing channel setup to be completed very quickly. For more details, refer to the external device's manual.
- You can easily record the TV programme you are viewing on a "T-V LINK" compatible device by using the "DIRECT REC" feature. For more details, refer to the external device's manual.

What is "ACI" (Automatic Channel Installation)?

Some cable companies transmit a signal called "ACI" which contains information that allows TV channels to be registered automatically on your TV.
When an ACI signal is received, "ACI Start / ACI Skip" appears in the "Auto Program" screen.

Receivable broadcast systems (Analogue channels)

Depending on the country selected during "Auto Program", the receivable broadcast system differs.

- UNITED KINGDOM: Receive only PAL-I.
- FRANCE: Can receive SECAM-L.

To receive SECAM-L in countries other than France:

- 1) Change the "Country" to "France" in "Auto Program".
- 2) Press the "BACK" button to return to the menu and enter the channel using "INSERT" or "MANUAL".

PC Signals that can be displayed

- If the signal doesn't appear, check that the vertical frequency on the PC is set to "60Hz".

Resolution	640 x 480 (VGA)	1024 x 768 (XGA)
Vertical frequency (Hz)	60.0	60.0

Connect "DVI" devices

Connect a "DVI" device to "EXT-5 (HDMI)" using "DVI-HDMI" conversion cable. Connect analogue sound output of the DVI device to L and R terminals in AUDIO (ANALOGUE).

- Set "Audio" in "HDMI Setting" to "Analogue" or "Auto" ⇒ (P. 22)
- EXT-6 input does not support analogue sound.

Power supply for the indoor aerial

When using an indoor aerial which needs external power, set "Antenna power" to "On" during "Initial settings" (P. 10). The TV will supply DC 5V, 50mA (max) from the aerial socket through the cable to the aerial.

- Supplying power to outdoor and indoor aerials which does not need external power, may cause damage to the aerial. If you are uncertain whether the aerial needs external power, select "Off".
- Connect the aerial directly to the TV. When a recording device is connected between the aerial and the TV, power cannot be supplied to the aerial.
- Power is supplied to the aerial only when the TV is on.

■ To change the setting after "Initial settings" is complete ⇒ "Antenna power" (P. 26)

"Dolby Digital" output from the "DIGITAL AUDIO OUT" terminal

Some digital channels are broadcasted with "Dolby Digital" signals.

In these cases, "Dolby Digital" signals can be output from the "DIGITAL AUDIO OUT" terminal.

1. Connect an audio system with a "Dolby Digital" decoder. (P. 9)
2. Change the "Digital Audio Output" setting from "PCM" to "Dolby Digital". (P. 26)
 - When changing the setting, the message "Dolby Digital selected! No analogue audio available." may be displayed for a few seconds.
 - Each time the channel is changed to a channel that is broadcast with "Dolby Digital" signals, the message "Dolby Digital selected! No analogue audio available." may be displayed for a few seconds.
 - Even if "Dolby Digital" is set, "linear PCM" signals will be output by a channel that is not broadcast with "Dolby Digital" signals.
Set the audio system so that it is compatible with both "Dolby Digital" and "linear PCM". (For details, refer to the audio system instruction manual.)
 - When you want to temporarily change the setting from "Dolby Digital" to "PCM", change with the "Audio selection" menu (P. 19).

■ Set "Digital Audio Output" to "PCM" in the following cases.

The sound of a channel broadcast with "Dolby Digital" signals cannot be heard even when "Dolby Digital" is set.

- When listening with the TV speakers.
- When listening with an audio system that does not have a "Dolby Digital" decoder.
- When listening with an audio system that is connected to the "AUDIO OUT" terminal.
- When recording a programme.

■ If a language with "Dolby" is selected when "Dolby" is displayed in the "Audio selection" menu (P. 19), the "Digital Audio Output" setting can be temporarily changed from "PCM" to "Dolby Digital".

- A message recommending you to change the "Digital Audio Output" setting to "Dolby Digital" is displayed for a few seconds.

■ If you want to record a "Dolby Digital" signal using timer-record (P. 18), change the "timer-record setting" from "PCM / Analogue" to "Dolby Digital". However, if the setting is changed to "Dolby Digital", you cannot record analogue sound with a recording device that is connected to the EXT-2 terminal.

■ "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Digital channels that cannot be watched on this TV

If a digital channel service uses new formats (such as DVB-H or MPEG4, etc.), or MHP, it cannot be watched even though the channel name appears.

If the channel is selected, the picture will not appear and audio cannot be heard.

- You can delete these channels by using the "Delete" in the "Edit PR"
⇒ "Editing digital channels" (P. 28)

Set the clock to the right time

Displayed clock time for digital channels is based on the information from the broadcast, and obtained by calculating the time difference between your time zone and Greenwich Mean Time (GMT) according to the "Country" setting in the "Configuration" menu. ("Time Zone" is set in "Auto")

If there is a time difference within the same country, or the time information is not correct, the clock on the screen is incorrect. To amend this, change the "Time Zone" setting.

- 1 Display "Configuration" menu (P. 25)
- 2 Select "Time Zone" and press the OK button
- 3 Select the nearest city or country from your resident and press the OK button
- 4 Press the MENU button

Auto in "Zoom"

When "Auto" is selected in Zoom, the aspect ratio will turn to the ratio obtained from the information the TV received.

- The aspect ratio will turn to the ratio obtained from WSS (Wide Screen Identification Signal), video signal, or control signal of the external devices. Without receiving the aspect information, it will be the setting in "4:3 Auto Aspect" (P. 24)
- Not available in PC mode.

Technical information (continued)

What is "HDMI CEC"?

HDMI CEC (Consumer Electronics Control) allows the TV to connect and control multiple HDMI CEC enabled devices with a single remote. CEC (Consumer Electronics Control) is an optional protocol used in HDMI.

- HDMI CEC on this TV is compliant with "High-Definition Multimedia Interface Specification Version 1.2a".
- The TV does not support HDMI CEC functions that are not listed below.
- The TV does not guarantee to support use of all HDMI CEC enabled devices.
- Devices that are not enabled to HDMI CEC cannot be controlled with this TV.

■ Control the TV using the HDMI CEC enabled device

- Turn the TV on and switch to the video source of the operating device.
- Switch to the video source of the operating device.
- Turn the TV off with the HDMI CEC enabled device you are viewing.
- * For operating instructions of the device, refer to the device's manual.

■ Control the HDMI CEC enabled device using the TV

- Turn off the operating device by turning off the TV.
- * Some device may not support this function. For more details refer to the device's manual.

■ Send status of the TV to the HDMI CEC enabled device

- When switching the TV's external input or channel.
- When switching the TV's menu language.
- * Information regarding behaviour of the device when status is received, refer to the external device's manual.

Turning On / Off HDMI CEC:

- Set HDMI CEC ⇨ "HDMI Setting" (P. 22)
- * Factory default setting is "On".

If "HDMI CEC" does not work correctly:

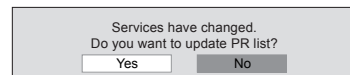
- When HDMI CEC enabled device is connected to EXT-1 or EXT-2 with SCART cable and EXT-5 or EXT-6 with HDMI cable, you may not be able to control TV's external input. To solve the problem set "HDMI CEC" to "Off".

Updating the PR list (Digital channel only)

The TV will run the reception test (for digital channel) at midnight (3 AM) on a daily basis.

If the TV detects channels that became receivable or if the TV was not able to receive a certain channel, a message about updating the PR list will be displayed when the TV is turned on.

- The reception test will only operate when the TV is on standby. It will not operate when the TV is turned on.
- If the TV does not detect any channels that needs to be updated, a message will not be displayed.



■ To update the PR list

1. Select "Yes" and press the OK button.
2. "Service Scan" menu is displayed.
Run the service scan to update the PR list ⇨ "Service Scan" (P. 27)
- If "Reinstall" is set in "Mode" of "Service Scan" menu, all PR list setting will reset and all the reservations for "Record" and "Remind" will be canceled. If you want to leave those settings and just add channels, set the "Mode" of "Service Scan" menu to "Add." (P. 27)
- If "Add" is set in "Mode" of "Service Scan" menu, channels which the TV could not receive will not be deleted from the PR list. To delete those channels manually ⇨ "Edit PR" (P. 28)
- The service scan will take a few minutes.

■ To cancel the update

Select "No" and press the OK button.

- If you want to update the PR list later, select "No" and press the OK button. Next time you turn on the TV, this message will not be displayed but you can also update the PR list using "Service Scan." (P. 27)

Specifications

Main unit

Model	HD-65DS80DDU	HD-58DS80DDU
Broadcasting systems	CCIR, B / G, D / K, I, L (See "Technical information", P. 33)	
Colour systems	TV broadcast : PAL, SECAM External input : PAL, SECAM, NTSC 3.58/4.43 MHz	
Channels and frequencies	● Digital : Finland / Spain E21-E69 (Frequency : 474 MHz-858 MHz), Sweden / Germany E5-E12 / E21-E69 (Frequency : 177.5 MHz-858 MHz) France F5-F10 / F21-F69 (Frequency : 178.75 MHz-858 MHz) ● Analogue : E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / R21-R69, S1-S41, X / Y / Z / Z+1 / Z+2, French cable channels (Frequency : 116-172 MHz / 220-469 MHz)	
Sound-multiplex systems	NICAM (B / G, D / K, I, L), A2 (B / G, D / K)	
Teletext systems	Digital : EBU TEXT Analogue : FLOF (Fastext), TOP, WST (World Standard System).	
Power requirements	AC 220 V - 240 V, 50 Hz	
Audio output (Rated power output)	10 W + 10 W + 10 W	
Speakers	(1 cm x 9.5 cm) x 2, 2 cm round x 2, 10 cm round x 1	
Power consumption [standby]	204 W [0.68 W]	
Screen size (visible area size measured diagonally)	165 cm	147 cm
Dimensions (W x H x D: mm) [without pedestals]	1459 mm x 1055 mm x 369 mm [1459 mm x 1055 mm x 295 mm]	1305 mm x 961 mm x 346 mm [1305 mm x 961 mm x 272 mm]
Weights	66 kg	54 kg
Accessories	(See "Check accessories", P. 6)	

- A Conditional Access Module for watching pay-TV digital channels can be installed (P. 7)
- DC power can be supplied to the indoor aerial. (P. 33)

Terminals / Connectors

Terminal name		Terminal type	Signal type (IN)	Signal type (OUT)	Notes
Input / Output terminals	EXT-1	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analogue RGB AUDIO L / R	TV out	
	EXT-2	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analogue RGB AUDIO L / R	Dubbing out	"T-V LINK" compatible
Input terminals	EXT-3	RCA connectors x 5	Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R		
	EXT-4	RCA connectors x 3, S-VIDEO connector x 1	Composite video, S-video AUDIO L / R		
	EXT-5 (HDMI-1)	HDMI connector x 1 RCA connectors x 2	HDMI (576i (625i) / 480i (525i) / 576p (625p) / 480p (525p), 1080i (1125i), 720p (750p), 1080p (1125p)) AUDIO L / R (EXT-5 only)		"HDMI CEC" compatible (left column)
	EXT-6 (HDMI-2)	HDMI connector x 1			
	PC INPUT	D-SUB (15 pins) x 1	Analogue PC signal (P. 33)		
Output terminals	AUDIO OUT	RCA connectors x 2		Audio L / R	
	DIGITAL AUDIO OUT	OPTICAL connector x1		Digital audio (48 kHz, 16 bit linear PCM / Dolby Digital)	
	Headphone	Stereo mini-jack x 1 (3.5 mm in diameter)		Headphone output	

- We may change the design and specifications without notice.

